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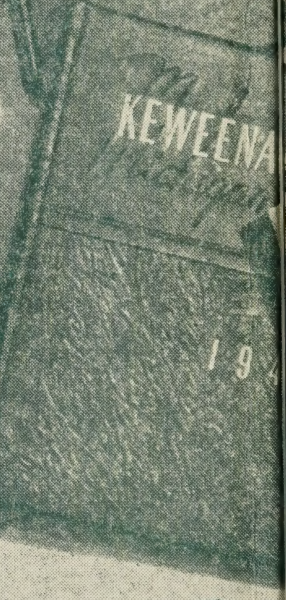
THE KEWEENAWAN
Thirtieth Anniversary

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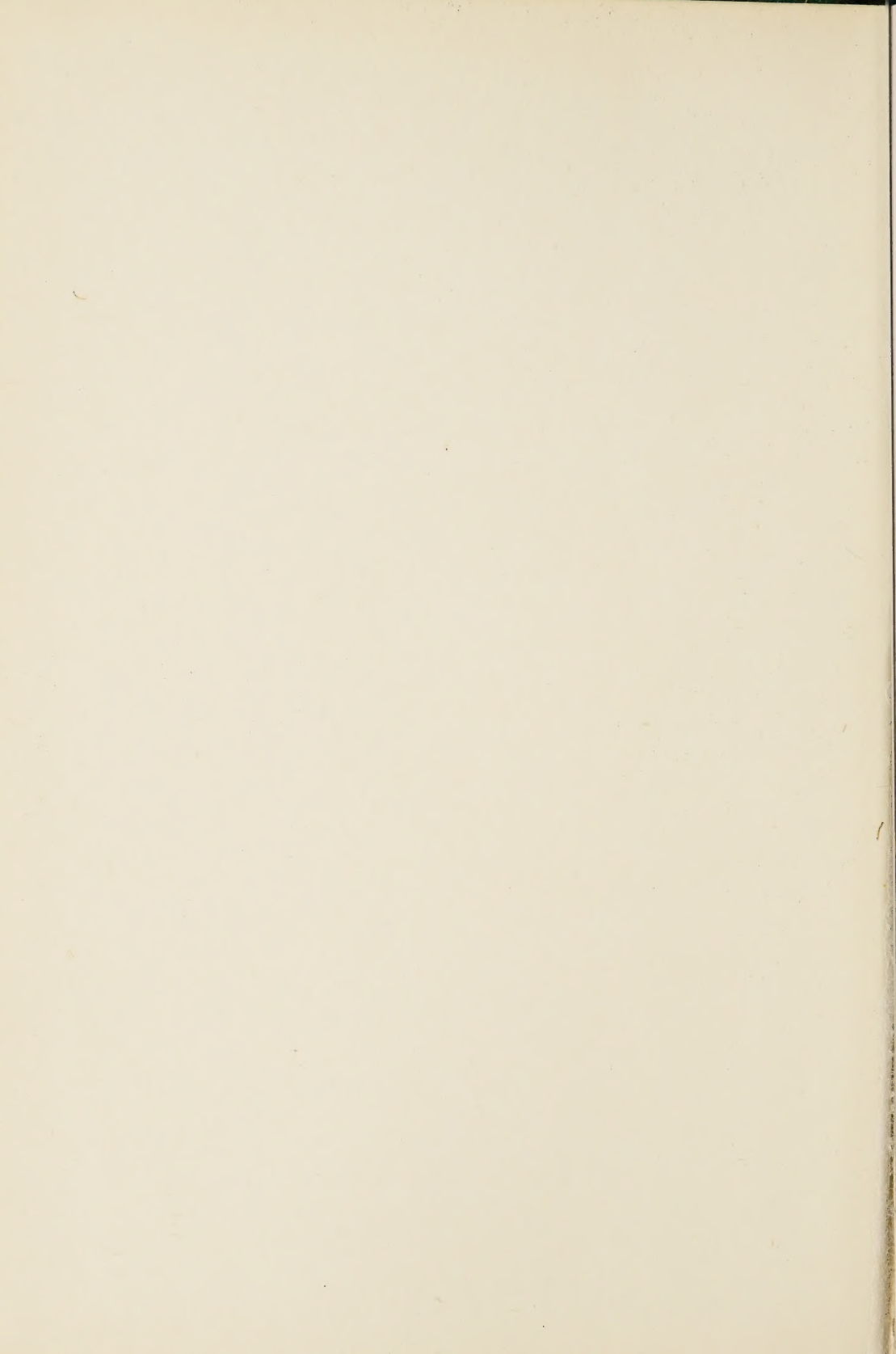
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*The
Nineteen Hundred
and Fifty-four*

KEWEENAWAN

*Published by
the students of the*

MICHIGAN COLLEGE OF MINING
AND TECHNOLOGY

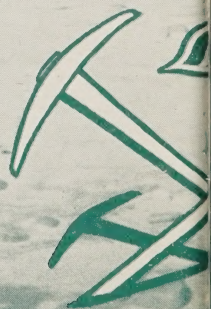
Houghton, Michigan



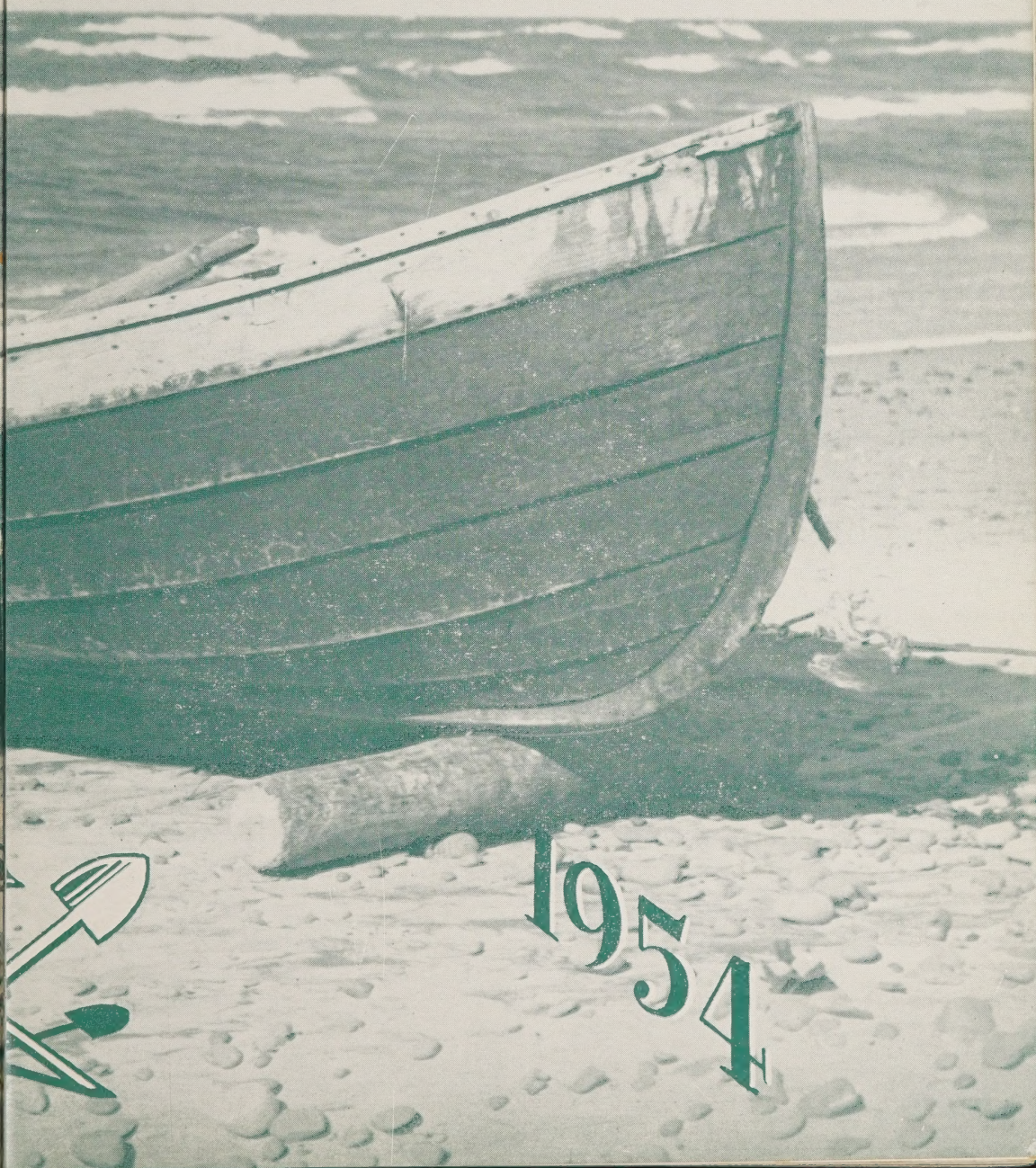
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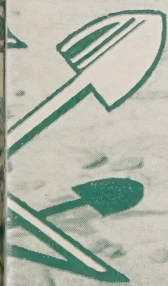
1924



30th ANNIVERSARY



1954



THE KEWEENAWAN—MICHIGAN COLLEGE OF MINES 1924

To the Staff of the Keweenawan, this book represents the consummation of many hopes, the ending of countless trials and worries, the lasting satisfaction of a long and arduous task completed, and the embodiment of a lasting and unstinted effort to be worthy of the expectations of our fellows. Under the stress of urgent demands from our "profs" for some modicum of work upon our studies, ever harassed by troubles from every source, working without precedent or guide, laboring under adverse conditions imposed upon a similar book a few years ago, it is a small wonder that a heartfelt prayer that this book may be worthy of its name goes forth with this, the first Keweenawan.

Without a faculty adviser, we took upon ourselves the responsibility of the book, planning and compiling the entire work unaided, an achievement of which we feel justly proud. Our tiny workshop in the commandeered kitchen of the gym has been the scene of many an all night vigil when work was at its height.

We wish that we might pass on to future editors a little of the experience we have gained in treading our unknown paths. May this book be an inspiration to them and may they profit by the errors of their predecessors.

The reputation of M. C. M. as a veritable workshop was an almost unsurmountable barrier: sixty six hours of school work per week and an equivalent length of time devoted to the book left but little time for sleep, to say nothing of pleasure.

Although we realize that the publication of a large book at any college or university must entail the burning of considerable midnight oil, at the same time we envy those men that can take the necessary time from their studies without endangering their scholastic standings.

The senior members of the Staff leave school this spring. They carry with them sincere respect and love for M. C. M. However, such an undertaking as the KEWEENAWAN cannot fail to impress upon them that too little time is allotted for efforts of this sort and to the cultural side of our education. We are going out into a profession that is being continually disparaged because of the common conception that the engineer is merely a highly skilled mechanic, destined by custom to serve only as an employee of the man trained in business. We resent, although we recognize this attitude, but we feel that it can be corrected. Courses embracing only those subjects pertaining only to the applied sciences, to the entire neglect of the art and cultural studies, do not tend to overcome this difficulty.

A degree from a college of recognized standing implies that the recipient possesses culture; that he knows Nature; something of art and literature; and that he carries the keys of the world's library in his pocket and is able to make use of its resources. There are too many engineers that would fail to qualify as being educated with these requisites.

We should like to see the future engineer so equipped that he may command the public recognition to which his abilities entitle him. The fact that he is gradually attaining a more prominent place in the business world and is being called to management of great corporations is indisputable. This is a field in which he should meet with decided success, for organization and management are his specialties, and for him, the handling of men and supplies are matters of scientific procedure. The knowledge of human relations, so necessary for success, is made clearer by the reading and consideration of general life questions; the study of philosophy, of economics, of literature, of history. It is the duty of the College to impart this knowledge.

The amount of work to be covered in an engineering school is far greater than that of a generation ago; add to this the growing realization of the necessity for an adequate cultural background, and the engineering schools are indeed confronted with a problem.

The above letter is reprinted from the 1924 Keweenawan. It was selected because it so closely parallels the story of the past Keweenawan staffs. We hope that it will awaken the faculty and students of Michigan Tech and give them some incentive to cooperate with future Keweenawan staffs.

IN MEMORIAL

We dedicate this our anniversary section to the war dead of the Second World War and its aftermath. It is only fitting that these brave men should be honored in some manner. Since thoughts of them will be brought forth in the following pages it is proper to honor them with this dedication.

WORLD WAR II CASUALTIES

ALUMNI KILLED DURING, OR AS A RESULT OF THE KOREAN WAR

Robert Adams '30	Thomas Irwin '46	Warren Rowan '43
Harry Allen '44	Willis Jacobs '40	John Ruhl, Jr. '40
Donald Anrep '50	Charles Jefferys '42	Uno Salmi '41
Merwin Babcock '34	Edmond Jennings '38	Milton Schmidt '45
Frederick Baird '41	Robert Johnson '43	Philip Schuman '40
John Beahan '43	William Jolly '43	Louis Seno '45
Karl Berge, Jr. '46	John Kehl '43	Clyde Simmonds '42
Raymond Besner '40	Jack Kinsey '40	William Skelton '42
Trumen Besner '42	Clifford Klein '46	Donald Smith '44
Frederick Bourgeois '42	Rupert Klemetti '34	Robert Smith '45
Charles Bowman '38	Waldemar Knoll '45	Edwin Statia '39
Robert Bravender '42	James Kraus '38	Robert Stolzy '45
Wells Brayton '42	William Liddie, Jr. '42	William Sutherland '45
Charles Buyse '44	Endicott Lovell, Jr. '44	Wilbur Thomas '42
John Callinan, Jr. '43	James Lovell '45	Donald Tripp '42
Joseph Cameron '45	William Lowry '32	Donald Tuke '42
John Carlton, Jr. '46	Robert MacDonald '47	John Turvey '33
Robert Carson '45	John Magoffin '40	Charles Upson '40
Richard Clements '47	Wilbur Mason '37	John Walton '44
Walter Craig '41	Paul McCallum '28	Ferdinand Wieber, III '46
Frank Dorsey '43	Harry McIntyre '39	Herbert Willson '49
William Dory '43	William McMitchell '40	Herman Winkler '44
Douglas Evans '42	Leslie McNamara '25	Frederick Young '45
Raymond Fahlen '44	Vincent Mick '39	Donald Anrep '50
John Finucan '46	Robert Miller '40	Lindsay Bartholomew '51
Everett Forslund '43	Robert Misslitz '45	Kenneth Beaudoin '49
Bernard Frantz '46	James Mitchell '45	Channing Gardner '47
Paul Fredd '42	Robert Mitts '46	Karl Hansen '51
Reuben Gareau '41	John Nelson '45	Paul Hartmann '43
Russell Gribble '41	Roger Ostdahl '44	William Paull '47
Le Roy Hartmann '44	Eugene Oswald '39	Roy Thorpe '46
John Hascall '39	John Parish '43	Walter Watson, Jr. Sault
William Higgins '37	James Perry '42	Donald Reitsma '52
Earl Hill '41	William Richards '36	George Deakin
	Jack Rogers '40	

1924—THIRTY YEARS OF EXPANSION—1954

In 1924, when the first Keweenawian was published, the Michigan College of Mines had a physical plant very much smaller than the one we enjoy today. The recreational facilities, now contained in the Memorial Union Building and the gymnasium, were located in the Clubhouse, which is now the R. O. T. C. building. The Administration building was the home of the History, Geography, and Languages Department as well as the library and offices of the administration. The Metallurgy building was being rebuilt after a fire destroyed the old one. The remainder of the physical plant included Sperr Hall, Hubbell Hall, Koenig Hall, the Shops building, and the power plant.

In 1927 the College took its present name and some of its present scope, and immediately there began an expansion that is still going on today. The 1954 Keweenawian presents some of the facts about the major additions to the Michigan Tech campus during the past thirty years on the following pages.



THE MEMORIAL UNION

In 1946 the College approached the trustees of the Alumni Association about the possibility of raising funds for a Memorial Union Building. The Foundation accepted the idea and set an initial goal for funds of \$300,000. The campaign began in June 1947 and by 1950 enough had been raised to start building. A little over the goal had been collected from Alumni and friends of the College. The ground breaking was on July 15, 1950 and by May 1952 the Memorial Union Building was a reality. Total cost of the newest and most beautiful addition to the Tech campus was close to a million and a quarter dollars. The additional cost was covered by a loan and the Union was to run on a self liquidating basis. The Memorial Union Association, of which every student is a member, is responsible for the government of the Union.

The Memorial Union's many facilities make it the most popular spot on the campus. These facilities include: six bowling alleys, a pool and billiards room, a darkroom, a large cafeteria, a snackbar, a bookstore, a large main lounge and a faculty lounge, a study room, several guest rooms, student and Alumni Foundation offices, a conference room and a fifty by ninety-six foot ballroom that is designed so that it can be divided into three smaller rooms.

The Memorial Union Building is dedicated to those alumni and students of the College who have served their country.



MCNAIR HALL

McNair Hall, completed in 1925, replaced the old Metallurgy building which had been destroyed by fire in 1920. The Hall was named in honor of Fred W. McNair who was President of the College until his tragic death in a train accident the year before the building was completed.

McNair Hall is the home of the Mineral Dressing and Metallurgical Engineering Departments. Several fine Metallurgical laboratories are housed here.

EAST ENGINEERING BUILDING

In 1930 the East Engineering building was officially opened. East Engineering is the largest class building on the campus. This building houses the departments of Mechanical Engineering, Electrical Engineering, Civil Engineering, Geology, History, and Geography. Three large well equipped laboratories for electricals, mechanicals, and civils are also found here. On the top floor of East Engineering is found one of the most complete Mineralogical displays in the State. The display is called Seaman Museum in honor of the late Dr. Seaman, famed Geologist and a professor at Michigan Tech.



DOUGLASS HOUGHTON HALL

1938 found the Douglass Houghton Hall opened for the first time to incoming male students. With the addition of a new wing in 1948, the Hall is capable of housing about 370 men. Residents of the Hall eat at the dormitory's large cafeteria. A snack bar, several lounges, a large ballroom, a game room, and a laundry room are other facilities that make the Douglass Houghton Hall a well rounded home for Techmen.

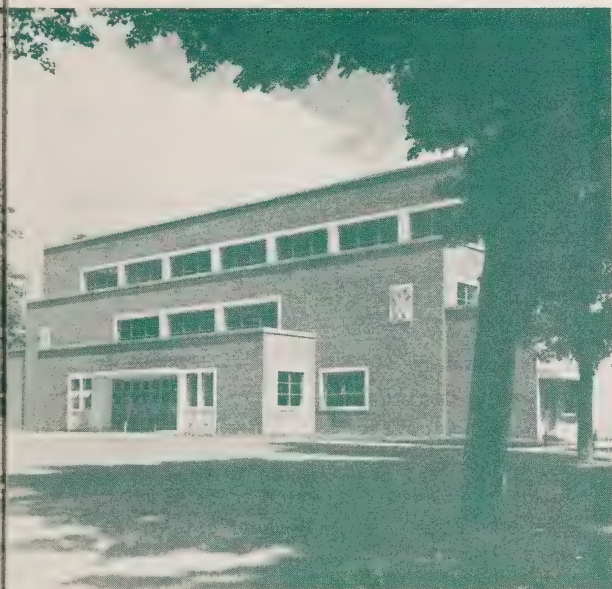
KOENIG HALL

Koenig Hall has had two additions built onto it since it was first built in 1921. The first addition was made in 1931 and it included the laboratories and several class rooms. The second addition was made in 1942. On the second floor of this addition is located a branch of the Michigan State Health Department. On the other two floors are located some of the classrooms and the well equipped laboratory of the Chemical Engineering Department.



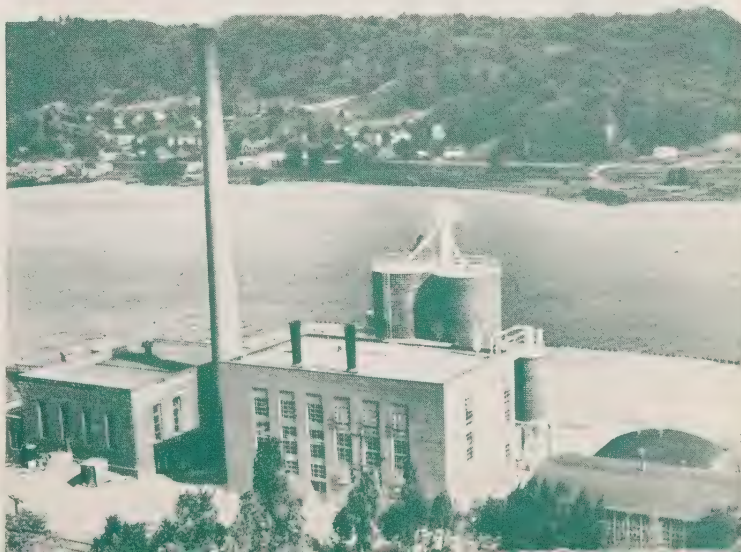
SHERMAN GYMNASIUM

In 1948 the long awaited Sherman Gymnasium replaced the old Clubhouse as the center of Michigan Tech athletics. The new gym is probably the most complete physical education plant in northern Michigan. The gym contains a large gymnasium floor along with facilities for basketball, volleyball, badminton, tennis, squash, boxing, wrestling, gymnastics, and handball. A feature is an olympic size, 75x30 foot, swimming pool with all the latest equipment, including an underwater lighting system. Ample locker space, training rooms, and staff offices complete the make up of beautiful Sherman Gymnasium.



CENTRAL HEATING PLANT

The new central heating plant started operation in the fall of 1950, replacing the old plant which had become inadequate for the expanding facilities of our college. The new plant is a steam-heating unit supplying the whole campus with the exception of Hubbell School.





M. C. M. & T. SKI AREA

In 1947 Tech took over the huge natural bowl above Ripley and began to groom it into the beautiful ski area it is today. Today there are four electric tows, two of them portable, with a total length of 2700 feet. There are three excellent ski runs with a vertical drop of 320 feet. Two jumps are always in great shape. Another feature of the area is the "Huskie Hut" where skiers gather to warm up. The Tech ski area's popularity is evidenced by the 8,000 skiers who enjoyed the slopes last year.

DEE STADIUM

Michigan Tech's Dee Stadium was presented to the college in 1943 as a gift from the late James R. Dee. In 1953, after many years of trying, an artificial ice plant was installed. Dee Stadium's ice is in almost constant use during the winter months. It is the home of two hockey stalwarts, the Portage Lake Pioneers and the Michigan Tech Huskies. Junior hockey players of the Houghton area and Tech intramural teams along with hundreds of pleasure skaters, all help to make Dee one of the Copper Country's favorite winter playgrounds.



A few of the additions to the Michigan Tech campus have been left out of the above account due to a lack of space in this book. These omissions are: Hubbell School, the Denton House, the Barry House, and Engineers Field. Enough has been included, we think, to impress the reader with the rapid growth of the College's facilities during the first thirty years of the Keweenawian.

Today Michigan Tech's enrollment is again rising at a rapid rate and a need for even greater expansion is being faced. Future Keweenawians will no doubt record many more additions to our beautiful campus. Some additions are already in the blue-print stage and others are being planned. A large research building will be going up in the very near future, and a new male student's dormitory is being planned as this is being written. A new library is badly needed and will undoubtedly be a reality during the next few years.

The next topic of this historical section of the Keweenawian's thirtieth anniversary issue will be some brief sketches of the three men who have so ably led this institution as President during the last thirty years.



DR. F. W. McNAIR



DR. W. O. HOTCHKISS



DR. G. C. DILLMAN

MICHIGAN TECH FROM 1924 TO 1954

The year that the first Keweenawian was published Dr. Fred W. McNair was the president of the College—he had held the post since 1893. He had developed the college through his enthusiasm, drive and ability from a “mining school” to a college that had achieved worldwide recognition. The enrollment had more than tripled; six major buildings had been erected and plans for a new metallurgy building had been completed.

Disaster struck only a month after the first “Keweenawian” appeared. On one of his trips in the interest of the College and the profession he represented, Dr. McNair was killed in a train accident.

McNair Hall, completed the following year, was named in his memory.

Dr. William Otis Hotchkiss became president of the College in 1925. An eminent geologist, he brought a new vision of the place of the College in American education. He saw the wisdom of broadening the College’s scope of education to meet the future demand for engineers in all fields, and as a result of his leadership Michigan Tech became a “College of Technology” in 1927. In 1928 the first ROTC engineer battalion was established at the College, and in 1930 the East Engineering Building was completed. And during Dr. Hotchkiss’ wise administration, enrollment was more than doubled. Dr. Hotchkiss left Michigan Tech in 1935 to become president of Rensselaer Polytech.

Dr. Grover C. Dillman had achieved an enviable record of accomplishment as Michigan Highway Commissioner and as State Welfare Commissioner. Becoming Michigan Tech’s fifth administrator in 1935, he brought new vigor to the College on its fiftieth birthday. In 1936 Forestry was added to the College’s curricula, and when ECPD accrediting was put into effect in 1937, Michigan Tech was among the top dozen of the 153 engineering colleges then in existence. Throughout Dr. Dillman’s presidency Michigan Tech has maintained its top-ranking accreditation. During his administration new departments were created in civil engineering, forestry, engineering administration, mineral dressing, Air Force ROTC, forest products research, and geological engineering.

The past thirty years have been milestones in Michigan Tech’s progress. That progress is a tribute to the abilities and leadership of Presidents, McNair, Hotchkiss, and Dillman—men who have given the most fruitful years of their careers to the educational ideal Michigan Tech represents.

HOCKEY

During the past thirty years, Michigan Tech athletics have made tremendous gains. In 1924 Tech competed in only the four major sports and only in hockey did they compete on a large scale. Today Tech participates with many colleges in ten major and minor sports. The completion of Sherman Gymnasium in 1948 and the installation of artificial ice at James R. Dee Stadium in 1953 brought the college's athletic facilities up to a standard unequalled by many schools their same size.

The following pictures illustrate a few of the highlights in our major sports through the past thirty years.

Hockey has been one of Tech's top sports for many years. About 1926 Tech began to fill their schedule with big time college competition, and they've been right in the thick of it ever since. In the past Tech has played with major universities throughout the nation. In 1951, Tech and six other schools formed the Midwest Hockey Conference. This Conference has produced the National champion ever since its conception so it is easy to see the caliber of competition that Tech teams meet annually.

Tech hockey teams have produced many of the games stars. From the past come such names as John Croze, Ed. Maki, Villeneuve, and the popular three time captain, "Abbie" Maki. In more recent years All Americans Joe Debastiani and Bob Monahan, along with speedy Ray Puro, have performed magnificently for the Silver and Gold. Today it's Taylor and McGinn.



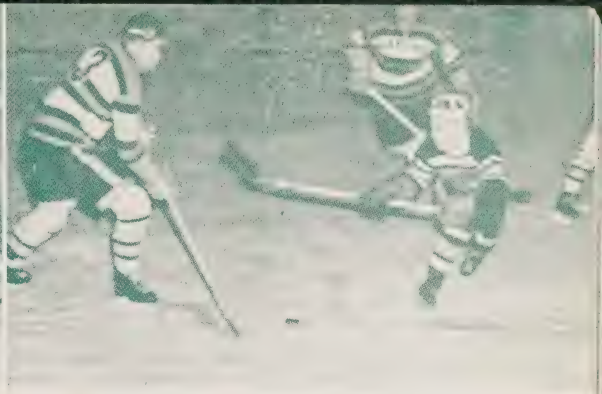
1948—Albert "Abbie" Maki,
Capt. 1946-'47-'48



1952—Joe Debastiani
Everyone's Favorite



1950—Ted and Marc Olson team up



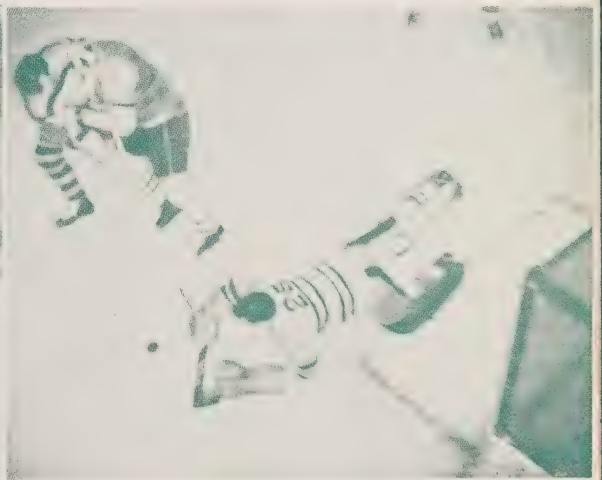
1951—One of Tech's oldest rivals—the U. of Minnesota



1949—Tech split a pair with the U. of Calif.
California goalie made 120 saves in 2 games



1949—Freshman Doug Koski on
a break-away



1947—A good save by Minnesota goalie



1948—One of many points during Tech's only undefeated, untied season

FOOTBALL

Football is Tech's oldest organized varsity sport. It started with contests between classes and with high schools in the area. Tech didn't carry any large schedules until the late 1930's. In 1940 Tech completed its first really successful season with a five and one record. The 1940 team was the largest to that time. During the war years Tech dropped football for three seasons, resuming play with a

full schedule in 1946. In 1947, Allan J. Bovard took the helm and under his guidance Tech football entered a new era. In his second year, Mr. Bovard guided the team to the only undefeated, untied football season in the school's history. Bovard coached teams have compiled the commendable record of 30 wins, 18 losses, and 3 ties, and have built up a good reputation for Tech sports throughout the mid-west.



1951—Surrounded!

1943—The usual Houghton weather



1947—The cheering squad



BASKETBALL

Varsity basketball has experienced a rough time at Tech. In 1948 Verdie Cox became coach and the Sherman Gymnasium was opened. Immediately Tech's basketball fortunes took a turn for the better and at the time of this writing, Cox's Huskies appeared to be on their way to one of Tech's best seasons on the hardwood. Gary Lundin of Iron River, Michigan, holds the Tech scoring records. His records of 34 points in a single game and 237 points for a season were both set in the 1952-53 season.



1952—Tech 72, St. Norberts 87



1949—Dedication of the new gym.



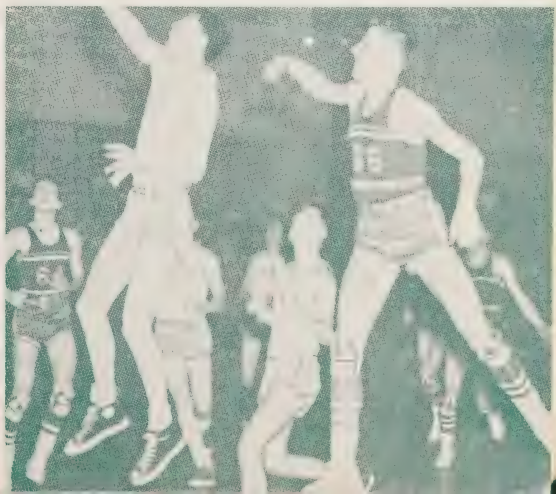
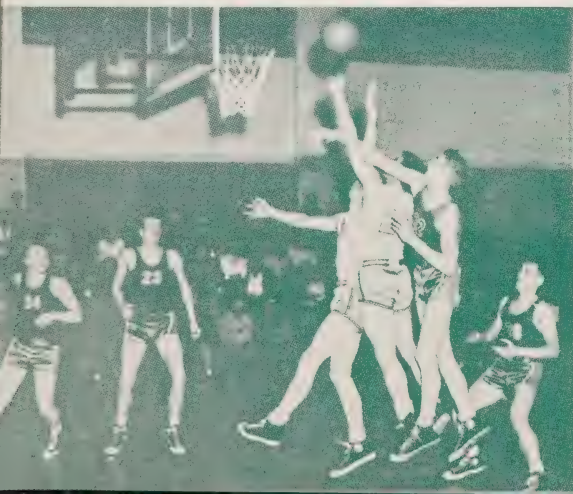
1947—Big crowd at the clubhouse.



1938—We win one, 34 to 28.

1950—A good game in a bad season.

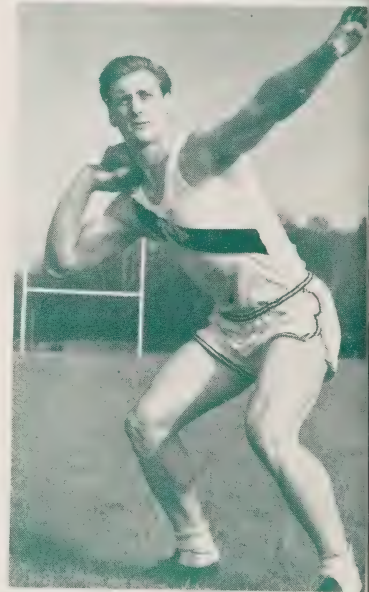
1952—Verdie Cox has his "Huskies" rolling.



VARSITY OUTDOOR TRACK RECORDS
End of 1953 Season

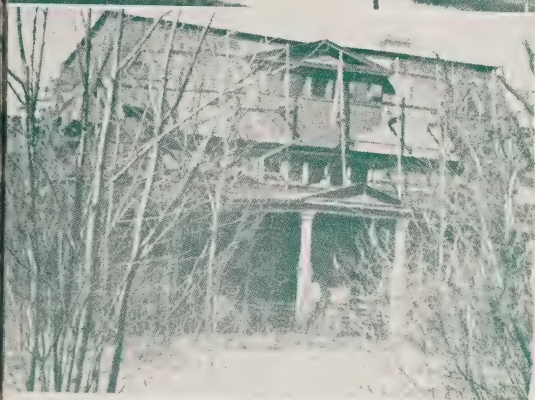
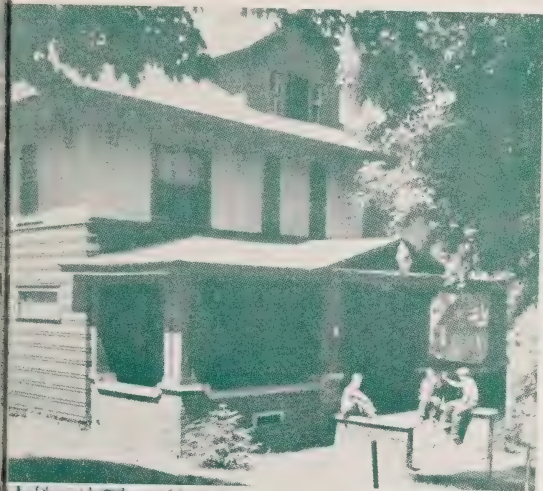
Event	Record	Holder	Season
100 yd. dash	10.0	Lahr	1952
220 yd. dash	22.5	Lahr	1952
440 yd. dash	52.3	Hart	1953
880 yd. run	2:03.5	Kitti	1942
Mile run	4.42	Kitti	1942
2 Mile run	10:25.7	Mattson	1953
120 yd. High Hurdles	15.7	Looby	1953
220 yd. Low Hurdles	26.1	Foster	1932
880 yd. Relay	1:34.8	Teegarden Hart Makarinsky Lahr	1952
Mile Relay	3:37.7	Chisholm Pearce Cole Hangstefer	1939
High Jump	6'	Looby	1953
Broad Jump	22' 4"	Jones	1952
Pole Vault	12'	T. Foley	1952
Discus	127' 2"	Jones	1953
Shot Put	42' 11¼"	Jones	1952
Javelin	176' 1"	A. Olson	1935

Upper R: Kitti, Center: R. Jones
Below L: Looby, Center: Hart, R: Lahr



1924 ORGANIZATIONS 1954

The past thirty years have seen many changes and additions to the active organizations on the Michigan Tech campus. Limited space and supply of pictures prevents the staff from presenting a complete account of the many changes. The following articles present some of the more interesting developments among student organizations that have taken place since the first Keweenawian was published.



BEFORE: COLLEGE AVE. EYE-SORE



AFTER: K. D. FRATERNITY HOUSE



DELTA SIGMA PHI

In October, 1947, Delta Sigma Phi became the newest fraternity on the Michigan Tech campus. In March, 1948, an installation committee from the Alpha Pi chapter at Michigan State College came up to install the new Beta Pi chapter. Forty-six charter members were initiated into the first national social fraternity to be located at Michigan Tech.

During the seven years of its existence here, Delta Sigma Phi has established itself as a valuable asset to campus scholastic and social life.

THETA CHI EPSILON

In March, 1940, the Tech co-eds organized Theta Chi Epsilon, the first and only sorority on the Michigan Tech campus. On March 7, of the same year, the charter members drew up a constitution and elected their first officers. Faculty advisor was Miss Ella Wood. The sorority immediately became active in all campus activities. Despite being small in number the co-eds have in many instances taken prizes in competition with many men's organizations during Winter Carnivals and Homecomings.



THE CHEERLEADING CLUB

In 1937 an ambitious group of Tech men organized a cheerleading club for the first time. Until the war years the club was very active and Tech was at an all time high. Since the war there have been few cheerleading squads organized. This year another attempt has been made to reorganize a cheerleading club and build up Tech's lagging spirit. Once again they have met little success. We hope that in the future Tech students will greet the cheerleaders with the enthusiasm that is deserved for their hard work.



GENE KNAEBEL

FRED LONSDORFF

M. C. M. T. SKI CLUB—1938

In 1938 Michigan Tech ventured into a new field of sport, skiing. In December, 1938, the Ski Club was organized by Ford C. Rea and by the end of the season boasted fifty members. The skiers did so well that skiing was immediately classed as a major sport at Tech. Through the years the Tech ski team has enjoyed almost uninterrupted success. For the past few years the team has been coached by Fred Lonsdorf. Today the Ski Club is one of the largest organizations, and through its Ski Patrol contributes a great service to the school and community.



ORES RESEARCH LABORATORY

In the preceding section we have attempted to tell the story of Michigan Tech. over the last thirty years. Its pages tell the story of a growing college as taken from past Keweenawans.

The future of Michigan Tech is as promising as the past has been illustrious. The state legislature this year appropriated enough money to begin the construction of the Ores Research Laboratory. Work on the new men's dorm will start this summer. Some time in the not too distant future a new library will be added to our campus, as well as additional classroom and laboratory facilities. Although it is still only a dream, an auditorium might some day be erected to fill our pressing need of an assembly hall. And perhaps the dream nearest and dearest to the hearts of so many people associated with the college will eventually be fulfilled—the new sports arena.



Dr. J. Wilbur Van Evera, B.S., E.M., 1907; D. Eng. 1952

A man whose life and work merit the honor of his College, J. Wilbur Van Evera symbolizes the spirit and loyalty of Michigan Tech Alumni.

He is known throughout the mining world as a pioneer of open-pit mining techniques and hydraulic stripping, and in his professional attainments he has left an example for the thousands of Techmen who have followed him.

For forty-seven years as an Alumnus of the College, Dr. Van Evera has maintained the closest ties with his Alma Mater. He has served as President of the Alumni Association and of the Minnesota Alumni Club. Together with other farsighted Alumni, he signed the original trust agreement of the Alumni Foundation in August, 1941, and became Chairman of the Foundation Board of Trustees in November of that year. Accepting the challenge of his position on the Foundation Board, and in addition to his professional duties, he organized and directed the Alumni Foundation fund-raising campaign that made the Memorial Union possible. His vision and his enthusiasm have helped to make Michigan Tech a better College for us and for those who follow us. He has sensed the needs of Techmen of a half-century ago; he has dedicated himself to fulfilling those needs for the generations of Techmen to come.

The **Keweenaw** salutes the spirit of the Alumni of Michigan Tech as typified by Dr. Van Evera, a man whom we are proud to honor. The Thirtieth Anniversary **Keweenaw** is dedicated to him.

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MICHIGAN COLLEGE OF MINING AND TECHNOLOGY

OFFICE OF THE PRESIDENT
HOUGHTON, MICHIGAN

GROVER C. DILLMAN

To the Students of the College:

The end of this, the sixty-eighth year of regular instruction at the Michigan College of Mining and Technology, is another milestone in the history of our College. It is also a milestone in the careers of each one of us--a milestone of importance, because it marks the beginning of something new, something unknown, and something yet to be achieved.

During this past year you have each strengthened the traditions that have well served to keep the College at the forefront among its sister institutions. Some of you have completed your educational careers and have launched a new career in a new life. You have left a part of you with us, a memory and a spirit that the College cherishes, a golden thread that ties each alumnus to his Alma Mater.

Others of you will return to continue the living traditions of the thousands who have passed them proudly down to you through these sixty-eight years. We who remain on the campus during the summer mark the time of your return, for it is you who provide the lifeblood that flows through the veins and arteries of the College.

A milestone may, for each one of us, be a steppingstone. It is my personal hope that the end of this college year will be the steppingstone that brings each one of you nearer to the goals you have set for yourselves, and that the past year has provided for you the growth and the vision to sustain your progress. I am confident that I speak for the college administration, faculty and staff, and student body in wishing each student and graduate success and happiness in attaining the next milestone in his career.

Sincerely,


President

GCD/J

BOARD OF CONTROL



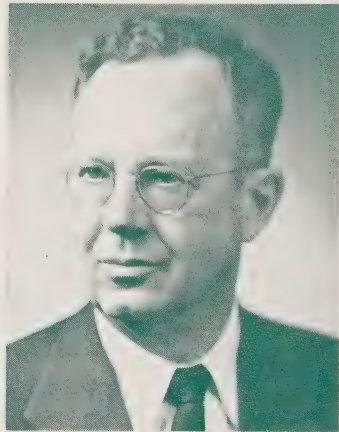
CYRIL M. CLARK
Ontonagon



JOSEPH M. DONNELLY
Houghton



C. HARRY BENEDICT
Lake Linden



WALDEMAR A. KNOLL
Ironwood



DONALD W. PROHAZKA
Sault Ste. Marie



PATRICK M. THORNTON
Houghton, Chairman

ADMINISTRATION



FAY L. PARTLO, B.S., E.M., Ph.M.,
Dean and Director of Extension Activities



ERNEST J. TOWNSEND, B.S. in Mng. E., M.S.
Treasurer and Business Manager



LEO F. DUGGAN, B.S., M.S., E.Met.
Registrar



THEODORE PEARCE, B.A., M.A.
Acting Director of College Relations



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CHEMISTRY and CHEMICAL ENG



NEERING G



DR. HENRY L. COLES

Professor and Head of the Department of Chemistry and Chemical Engineering, Dr. Henry L. Coles was appointed as successor to Dr. C. M. Carson in 1940, who retired at that time.

Dr. Coles received his B.S. and Ph. D. degrees from Ohio State University and Ch.E. and M.S. degrees from Rose Polytechnic Institute. Dr. Coles formerly headed the Department of Chemical and Metallurgical Engineering at the University of Alabama, engaging in consulting work at that time.

The author of two books and numerous articles in scientific and technical publications. Dr. Coles holds numerous patents in the fields of chemistry which were much used during World War II.

Dr. Coles is a member of a number of chemical societies and is listed in "The American Men of Science"; "Who's Who in America", and "Chemical Who's Who", and holds professional engineer's licenses in the States of Michigan and New York.





Bredekamp, Marriott W.
B.S., M.S., Ph.D.
Chemical Eng.—Assoc. Prof.



Doane, Floyd T.
A.B., M.S.
Chemistry—Ass't Prof.



Epperson, Ernest Reginald
B.S., M.S.
Chem. & Chem. Eng.—Ass't Prof.



Horton, Ira H.
B.A., M.A., Ph.D.
Chemistry—Assoc. Prof.

Maki, T. Rudolph
B.S., M.S.
Chemistry—Ass't Prof.





Makens, Royal F.
B.S., M.S., Ph.D.
Chemistry—Prof.



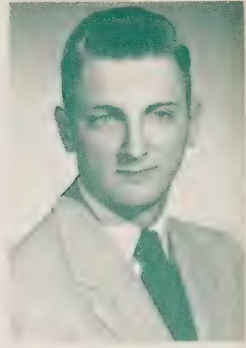
Menzel, Ralph Edward
B.A., Ph.D.
Chemistry—Assoc. Prof.



Park, Bartholow
B.S. M.S.
Chemistry—Prof.

Wittmer, Franklin B.
B.S., M.S., Ph.D.
Chemistry—Assoc. Prof.



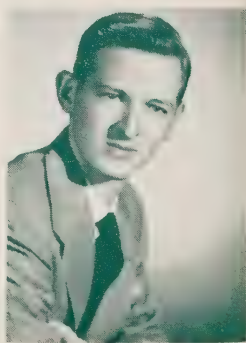
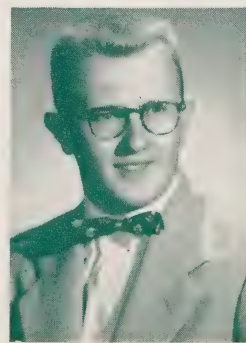
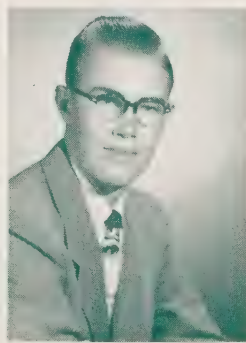
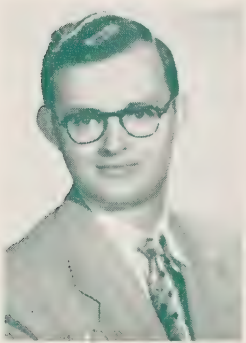
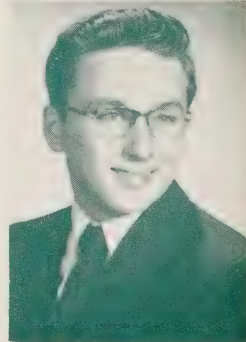
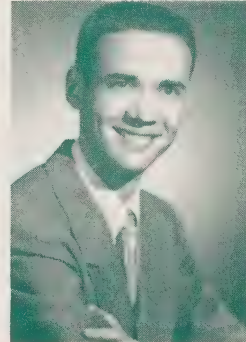


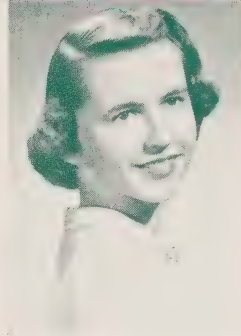
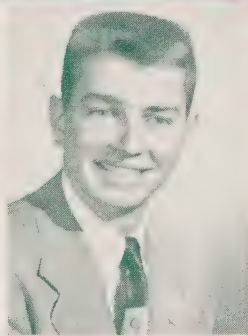
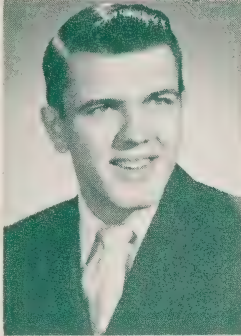
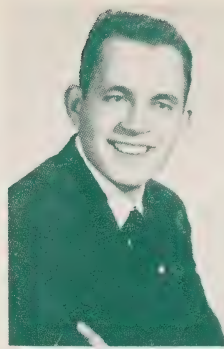
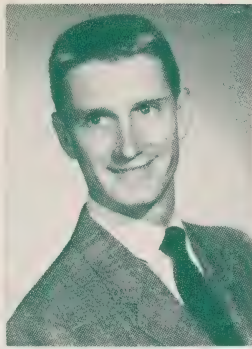
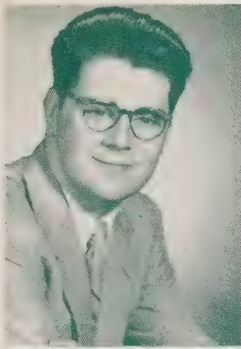
Top, row 1: Gary J. Babcock, William E. Barber, Richard M. Bongiovanni, Eugene Breckow.

Row 2: Calvin G. Caldwell, Robert Cooper, Robert F. Dennett, Albert H. DuFresne.

Bottom, row 1: Dale R. Greve, Ernie V. Luoma, John F. Marchaterre, Chauncey L. Martin.

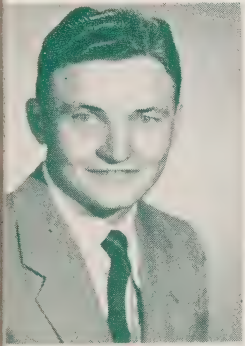
Row 2: Lionel Dale McCowen, Robert J. Nanke, David F. Pagel, William N. Parks.





Top, row 1: Robert E. Quilici, Edward L. Scarff,
Walter C. Schalm, Jr.

Row 2: Roy E. Schulz, Emil D. Sjöholm, Lucille
Waisanen.



Grad.—Melvin L. Anderson, M.S.

Medical Technology



Med. Tech.—Joan C. Adams, Patricia Pasich, Patricia A. Ranson, Norma Johnson.

American Chemical Society



L. to r.: Row 1: Emil Sjöholm, Gene Kelly, Vic Luoma, Pres., Bob Cooper, V.-Pres., Bob Nankee
Row 2: Gary Bbbcock, Barbara Findlay, Hella Grunzig, Shirley Pittenger, Doctor Makens.

American Institute of Chemical Engineers



L. to r.: Row 1: T. E. Niemi, W. E. Barber, W. C. Schalm Jr., C. L. Martin, Pres.; R. M. Bongiovanni, K. C. Kilponen, J. L. Buzzelli.
Row 2: A. W. Welch, R. E. Quilici, E. D. Sjöholm, Sec.; R. J. Nankee, Treas.; J. Z. Ryan, S. J. Souris, S. C. Oldford.
Row 3: J. J. Argeropoulos, F. E. Slawinski, R. J. LaLuzerne, F. D. Wittmer, P. F. Fehrenbach, E. R. Moore, L. J. Lefevre.

Phi Lambda Upsilon



L. to r.: Row 1: E. D. Sjöholm, Vice-Pres.; W. M. Parks, Treas.; R. F. Cooper, Pres.; R. F. Makens, Counsellor.

Row 2: C. L. Martin, R. J. Nankee, D. R. Greve, E. V. Luoma, Sec.

Medical Club



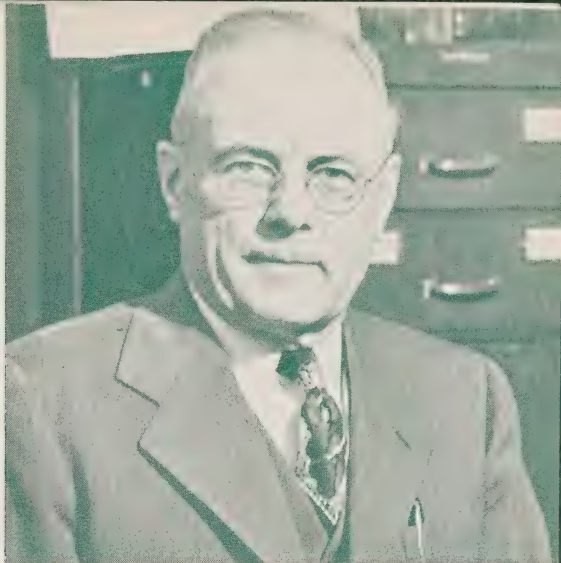
L. to r.: Row 1: Betty Winstanley, Gail Brown, Pres., Amy Wettberg.

Row 2: John Lierman, Barbara Martin, Kathleen Heckel, Bonnie Haigh, Doctor Horton.

CIVIL ENGINEER



R I N G



PROF. WILFRED C. POLKINGHORNE

Professor Wilfred C. Polkinghorne was appointed Head of the Department of Civil Engineering in the fall of 1945. He holds the degrees of B.S. and E.M. from the Michigan College of Mining and Technology and a M.S. degree from Yale University.

A member of the American Society of Civil Engineers, Professor Polkinghorne served as chairman of the A. S. C. E. Seventh Registration for Engineers, Architects and Mine Surveyors in 1939, and has served as chairman of that board. He also holds membership in structural and engineering organizations and also in the Theta Tau Fraternity, the Yale Club of Michigan and the Masonic Order. Professor Polkinghorne's biography appears in "Who's Who in America" and "Who's Who in Engineering".



Barrett, Theodore H.
E.M.
Civil Eng.—Assoc. Prof.



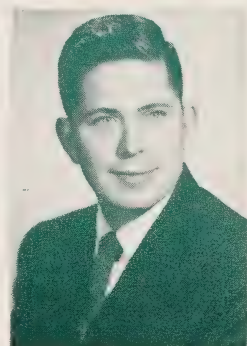
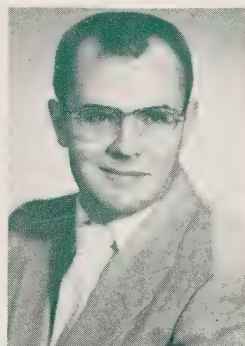
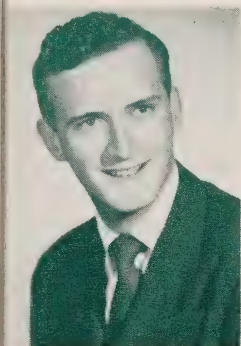
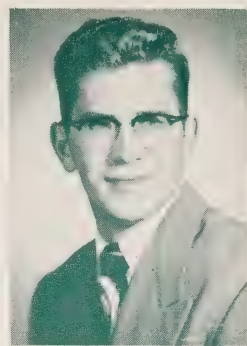
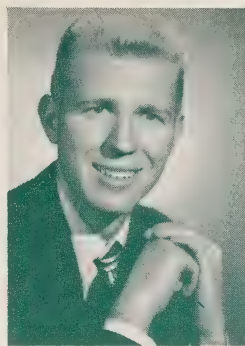
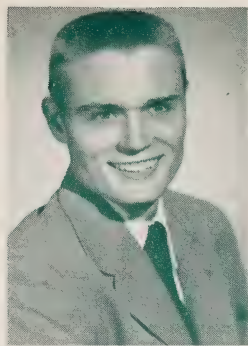
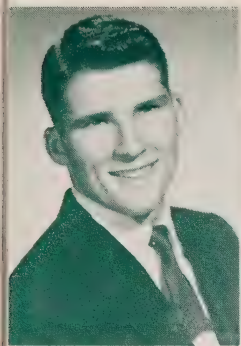
Caspary, Gerald J.
B.S. in C.E.
Civil Eng.—Ass't Prof.



Robert, Leonard
B.S., M.S.
Civil Eng.—Assoc. Prof.



Wiedenhofer, Edgar P.
B.S., E.M., M.S.
Civil Eng.—Prof.

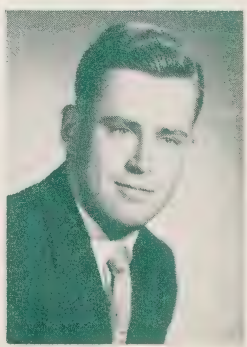
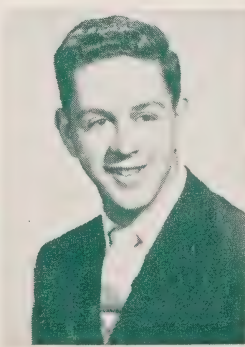
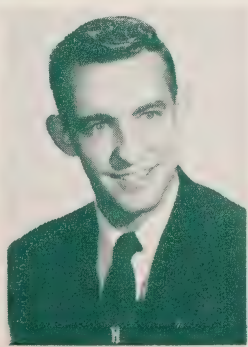
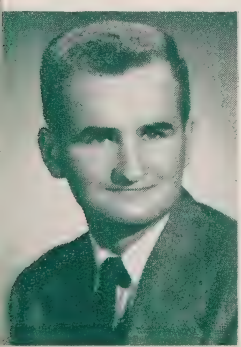
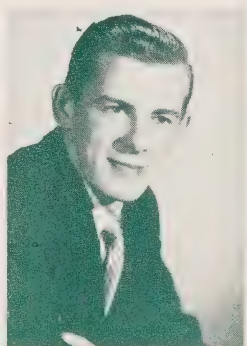
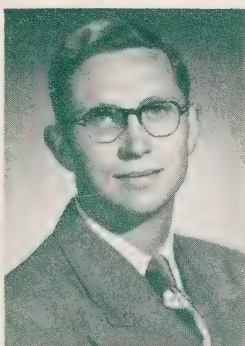
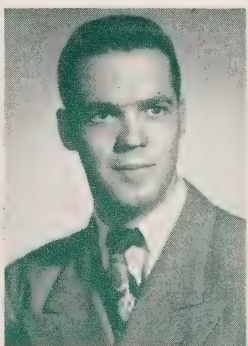


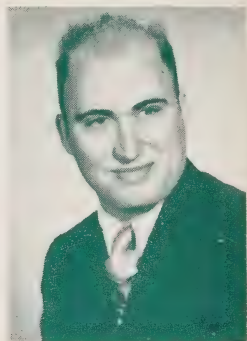
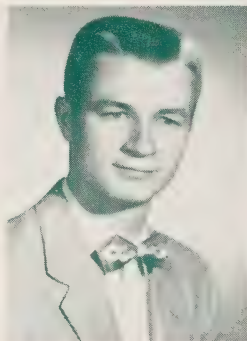
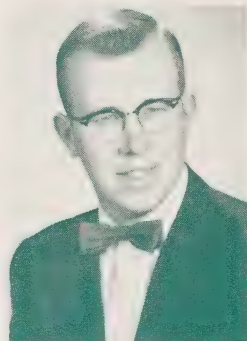
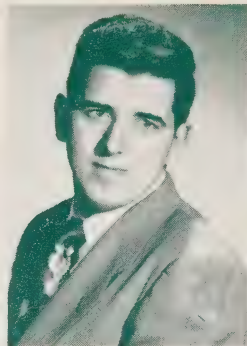
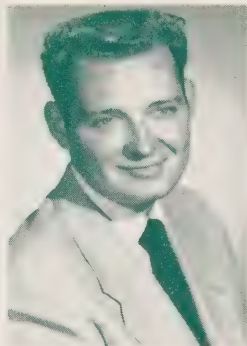
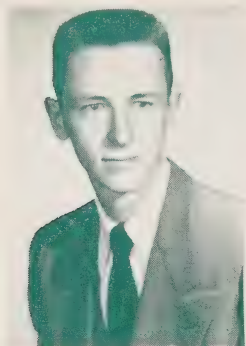
Top, row 1: Uhl J. Anderson, Joseph J. Armstrong, Harry E. Auld, John H. Beling.

Row 2: Patrick W. Bergman, Donald C. Bowen, Robert D. Carey, Russell B. Carlson.

Bottom, row 1: Robert J. Cochrane, Robert Dodge, Jake D. Dow, Donald F. Tomasini.

Row 2: James C. Gilbo, Dave Hanrahan, Robert D. Hitch, John H. Huru.



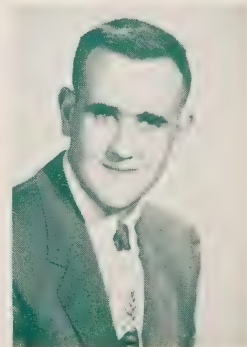
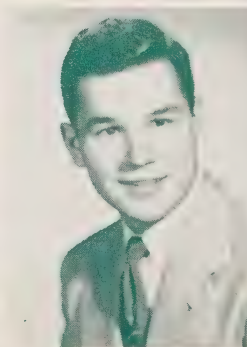
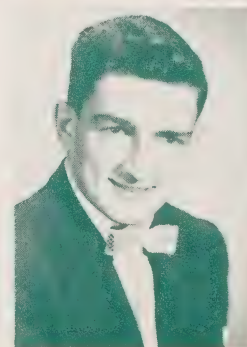
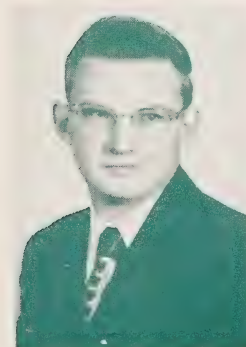
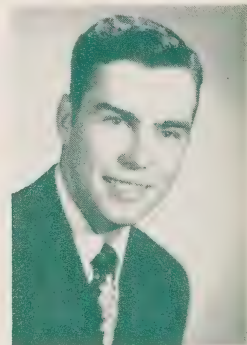
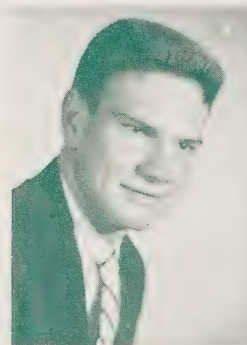
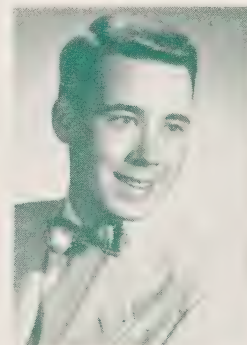


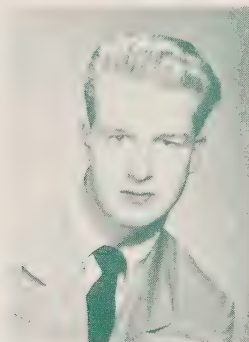
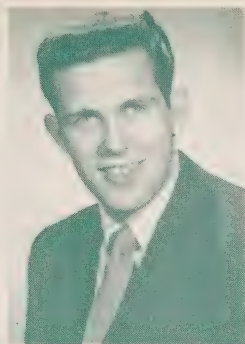
Top, row 1: Robert G. Johnson, Joseph W. Klug,
Robert C. Lunardini, Lowell Mallett.

Row 2: Tom A. Melko, Martin L. O'Toole
Harry L. Patterson, Burton J. Peckham

Bottom row 1: Gerald C. Proctor, Albert R.
Socha, Barth R. Schlup, Preston R. Spencer.

Row 2: Harry R. Swanson, Gene Taglienti,
Wallace A. Techentien, Thomas Thornton





Top, row 1: William O. Drummond, Robert J. Wellington, Clark R. Wittig, John P. Wuthrich.

Graduate Students

Arthur L. Jarvela, William A. Kissner

American Society of Civil Engineers



L. to r.: **Row 1:** E. P. Wiedenhoefer, Fac. Advisor; B. J. Peckham, Sec.; L. K. Mallett, Vice Pres.; M. W. Hendrickson, Pres.; R. K. Burgess, Treas.; G. S. Taglienti, H. C. Brunke, W. C. Polkinghorne, Dept. Hd.

Row 2: T. O. Reyhmer, Faculty Advisor; R. H. Paquette, C. I. Beatty, M. J. Sobolewski, J. W. Klug, J. C. Gilbo, D. C. Bowen, D. A. Slominski.

Row 3: L. A. Robert, E. L. Heidemann, D. Dirian, J. P. Wuthrich, B. R. Schlup, G. B. Larson, T. H. Barrett.

Members not shown: R. D. Carey, R. C. Dodge, W. O. Drummond, W. R. Grosser, P. R. Spencer, H. R. Swanson, D. F. Tomasin, W. E. Kissner, G. C. Greiss, R. E. Havel, J. F. Luecker, K. E. Seppala, G. N. Bennett, R. B. Van Omen, M. H. Arntzen, J. H. Bartz, W. A. Buck, J. R. Daly, C. L. Davis, F. D. Meyers, K. S. Spencer.

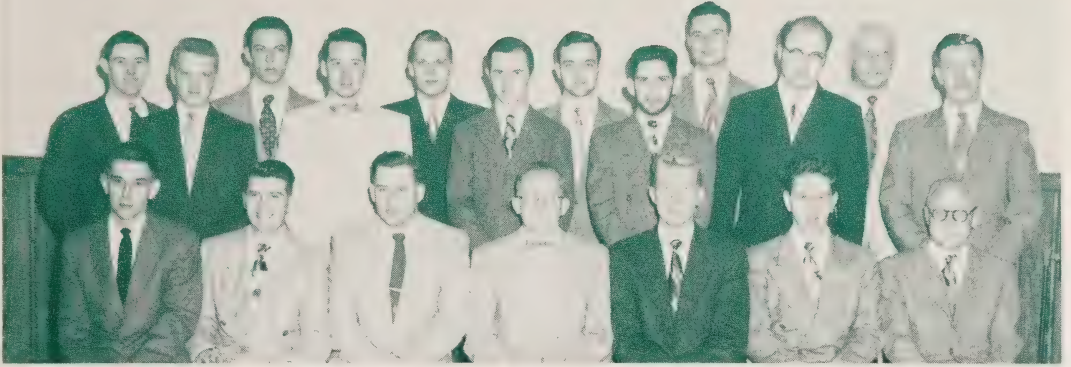


L. to r.: **Row 1:** R. J. Cochrane, W. A. Techentien, D. A. Hinckfoot, R. G. Johnson, R. C. Lunardini, U. J. Anderson, G. C. Proctor.

Row 2: T. A. Melko, R. J. Wellington, A. R. Socha, J. D. Dow, J. D. Huru, R. B. Carlson, A. L. Jarvela.

Row 3: J. Q. Peterson, H. J. Lawson, W. E. Saul, J. H. Beling, J. J. Armstrong, A. F. Wuori, G. M. Maki, H. L. Patterson.

Chi Epsilon



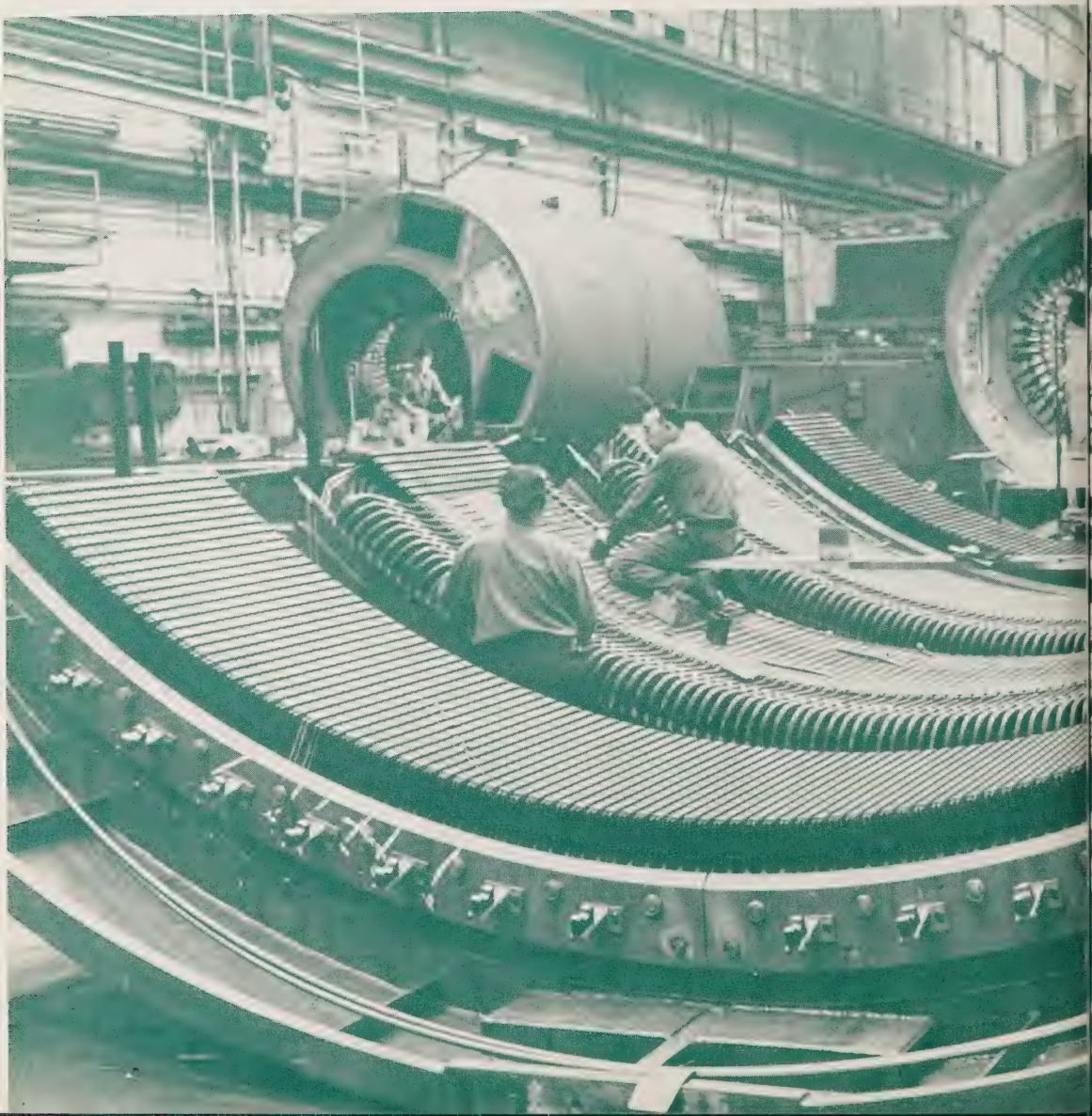
L. to r.: Row 1: C. I. Beatty, G. C. Proctor, Sec.; J. D. Huru, Pres.; G. J. Caspary, Faculty Advisor; H. E. Auld, Vice-Pres.; R. D. Hitch, Treas.; W. C. Polkinghorne.

Row 2: J. F. Luecker, A. R. Socha, W. J. Anttila, L. K. Mallett, B. J. Peckham, E. P. Wiedenhoefer.

Row 3: R. H. Paquette, W. E. Saul, A. F. Wuori, G. R. Nordbeck, P. A. Slominski, C. G. Stipe.

Chi Epsilon, the national honorary fraternity for Civil Engineers, was organized in 1922. The local chapter here at Michigan Tech was installed in 1943. It was organized to recognize those characteristics of the individual deemed fundamental to the successful engineer and to aid in the development of those traits. Selection of members is based not only on scholarship, but also on character, practicability, and sociability, all of which are considered to be requirements of a successful engineer.

ELECTRIC ENGINEER



CAL RING



GEORGE W. SWENSON,
Electrical Engineering

Professor Swenson, whose home town is Willmar, Minnesota, graduated from the University of Minnesota in 1917, then returning for his Master's degree in Electrical Engineering which he received in 1921.

After having received his Master's degree, Professor Swenson was employed as a telephone engineer by the Western Electric Corp. This lasted for only a short time, as he returned to his Alma Mater to be an instructor and Assistant Professor in the Electrical Dept. He kept that position until 1928 when the Michigan Tech Electrical Engineering Department was organized under his direction and guidance. This marks over twenty years in his capacity as Head of the Department in addition to being a counselor for this period.

The A. I. E. E. has given him the title of Fellow, and he belongs to Tau Beta Pi and Eta Kappa Nu, both of which are honorary fraternities. Among the professional fraternities, he belongs to Kappa Eta Kappa and the Service fraternity Alpha Phi Omega.

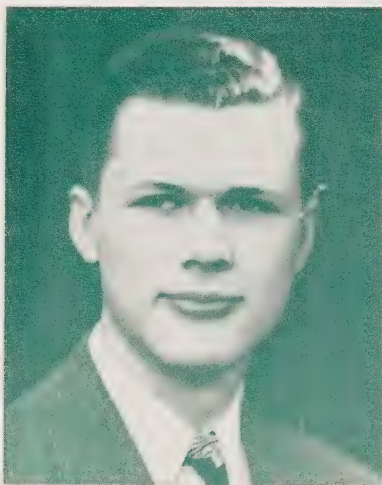
On top of this formidable array of honors, he is also an author of an Electrical Engineering Text and various professional papers.



Belanger, Robert N.
B. S.
Electrical Engineering



Jones, R. James
B. S.
Electrical Engineering



Lind, M. Stanley
B.S. M.S.
Electrical Engineering

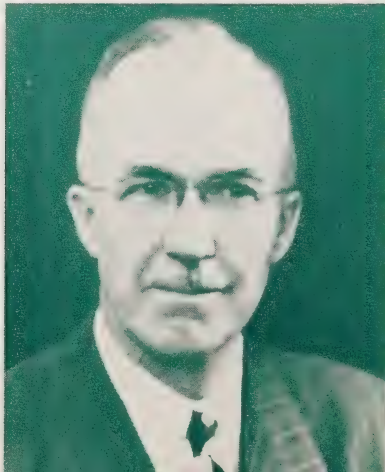


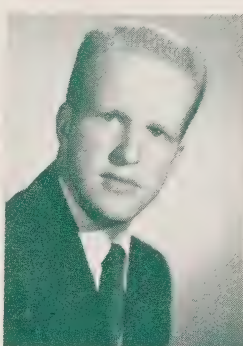
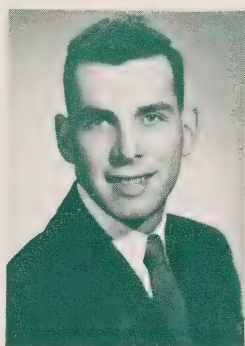
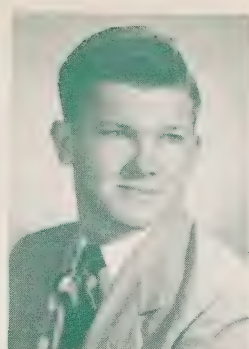
Roman, George
B.S. M.S.
Elect. Eng.—Ass't Prof

Schjonberg, Carl S.
B. S.
Elect. Eng.—Assoc. Prof



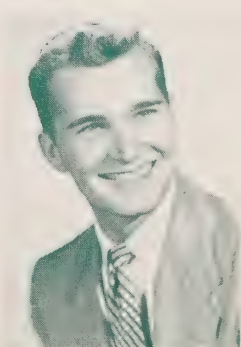
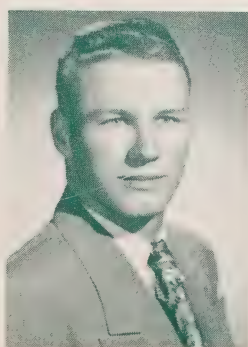
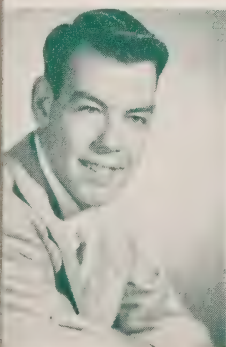
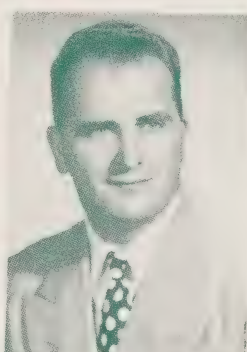
York, Verne O.
B. S.
Elect. Eng.—Assoc. Prof.

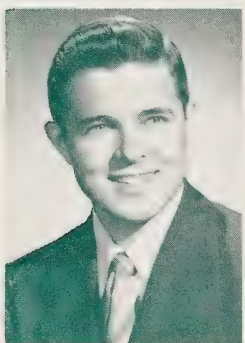
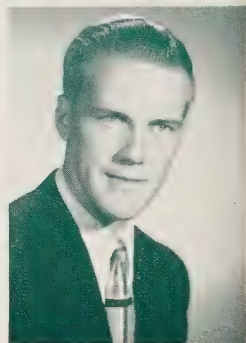
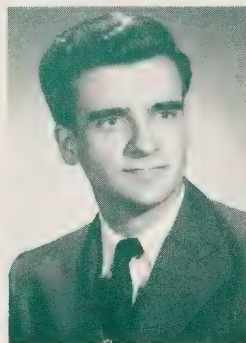
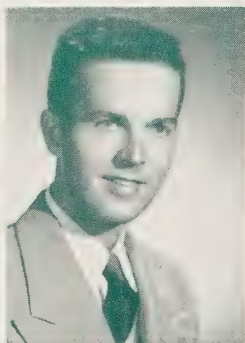
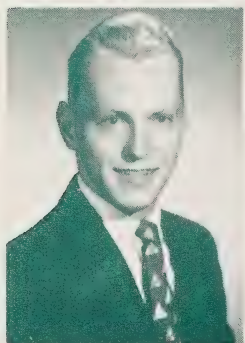
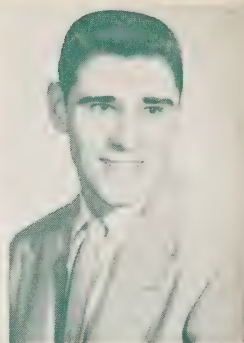
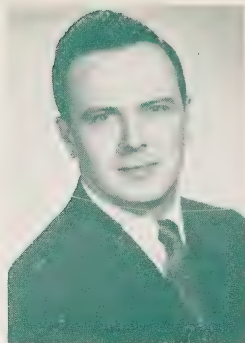
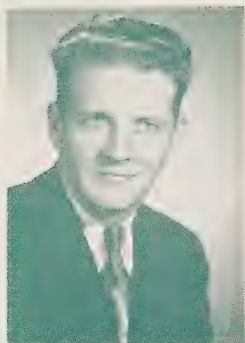




Top, Row 1: William L. Adams, Roger Brummel, Gerald Cooley, Walter Dolezel.
Row 2: Henry Lee Evans, Gilbert G. Gildner, Ronald R. Hocking, Donald Paul Jenkin.

Bottom, Row 1: Robert C. Kunz, James L. LeSueur, Earl W. Mäki.
Row 2: W. Frank Miotti, Ray H. Pesola, Charles Alan Robertsohn, Peter L. Rodal.





Top Row: Robert B. Schlettler, Ralph E. Schmitz, John S. Schunurer, Lawrence Simpkin.

Middle Row: Tim D. Slaugh, George E. Sutinen, Mario M. deGoes, William J. Wolin.

Bottom Row: Steve Theodore Wilkosz.

Eta Kappa Nu

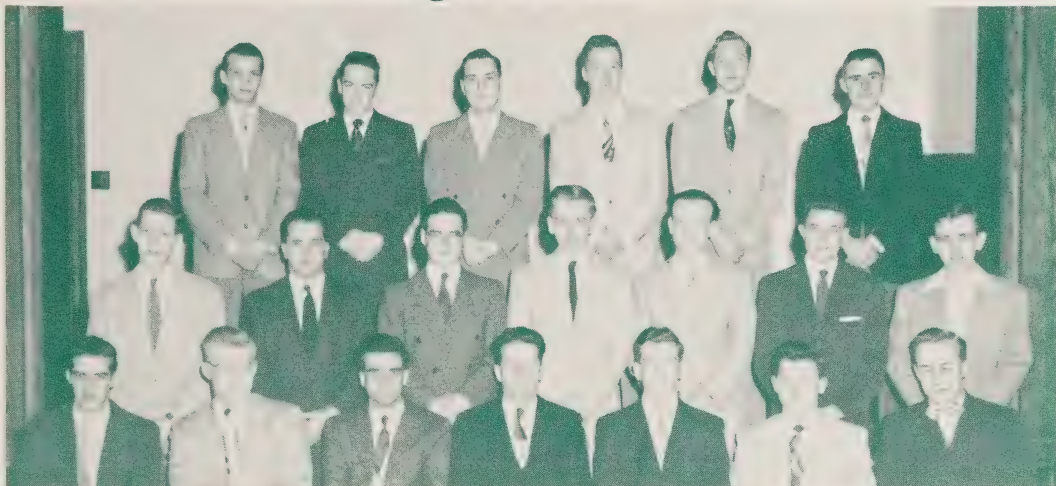


L. to r.: Row 1: H. L. Evans, Corres. Sec.; R. B. Schettler, Treas.; W. F. Miotti, Pres.; G. G. Gildner, Vice Pres.; R. R. Hocking, Bridge Corres.

Row 2: W. L. Adams, R. J. Goad, R. L. Brummel, J. A. Quaal, J. G. Jenkin.

Members not shown: Prof. G. W. Swenson, Faculty Advisor; C. A. Robertsón, Recording Sec.; B. F. Sager.

American Institute of Electrical Engineers



Row 1: A. S. Brookman, H. O. Barikmo, Secretary; M. M. de Goes, Vice Chairman; R. B. Schlettler Chairman; R. L. Brummell, Secretary; G. A. Cooley, Treasurer; L. D. Jackson.

Row 2: P. N. Walker, E. W. Maki, R. A. Johnson, J. R. Sack, B. A. Venn, S. T. Wilkosz, G. H. Mitchell

Row 3: C. F. Heald, R. J. Goad, D. P. Jenkin, H. L. Evans, R. H. Hubbard, E. A. Kern.

Members not shown: J. Ackerman, B. Aschon, W. Baxandall, J. Beck, T. Holmi, K. Masse, J. Ridgeway, A. Robertson, R. Saari, B. Tibbitts, S. Johnson, J. Quaal, E. Miller, C. Maki, R. Peterson, C. Pelkola, B. Adams, H. Young, Fitchpatrick, E. Lind, B. Scott.

Radio Club



L. to r.: Row 1: H. Lee Evans, W8JXL; R. J. Goad, Pres., W8DUQ; D. M. Pearson, Vice-Pres., W8IDM.

Row 2: R. A. Johnson, W8FSQ; H. O. Barikmo, W8JLD; H. M. Yakabe, KH6AHS; J. L. Felch, W8GQV.

ENGINEER ADMINISTR



Principles of
**ENGINEERING
ECONOMY**

by
Engene L. Grant
Professor of Engineering
University of California, Berkeley

Third Edition

The Ronald Press Company - New York

NG ATION



THOMAS N. SMITH
Engineering Administration

Professor Thomas N. Smith became head of the Department of Engineering Administration in 1951. He received the B.S. degree from Juniata College, and the Master of Education degree from the University of Pittsburgh.

Professor Smith has owned and operated retail establishments. His educational experience includes several years of teaching at Michigan Tech before becoming department head, and several years of secondary school instructing. He was a Red Cross regional director in charge of operations in North Italy and Corsica during World War II, and from 1949 to 1951 was state supervisor of business education for the West Virginia state board of vocational education.



Drake, Louis S.
B.S., M.S., Ph.D.



Summers, Marvin R.
B.S., M.A., Ph.D.



Williams, Ralph M.
B.A.



Gayle D. Petrick



F O R E S



T R Y



U. J. NOBLET, Forestry

The Department of Forestry, organized and led by Professor U. J. Noblet, was created in 1936. A graduate of Michigan State College, Professor Noblet completed post-graduate work at Michigan State and the Universities of Minnesota and Michigan.

Formerly, Professor Noblet was in charge of timber mapping and cruising when assigned to the U. S. Engineers at Rock Island, Illinois. Prior to serving as Head of the Department of Athletics when he joined the Michigan Tech staff in 1929, Professor Noblet instructed mathematics and physical education at high schools in Cadillac and Grand Rapids, Michigan.

Professor Noblet is a member of the Society of American Foresters and the American Forestry Association. He is also a member of Kappa Delta Psi Fraternity and is faculty advisor of the Forestry Club.





Bourdo, Earl A.
B.S.
Forestry



Brown, Robert T.
B.S. in Ch. E., B.S., M.S., Ph.D.
Forestry



Hesterberg, Gene A.
B.S., M.S.
Forestry



Hooker, Leland W.
B.S., M.S.
For. Prod. Research—Ass't Prof

Garland, Hereford
B.S., M.S., Ph.D.
Dir. of For. Prod. Research—Prof.



Johnson, Vernon W.
B.S., M.S.
Forestry—Assoc. Prof.



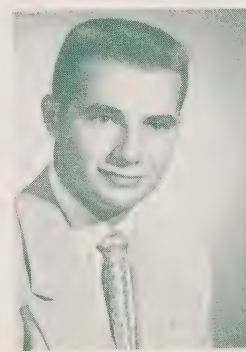
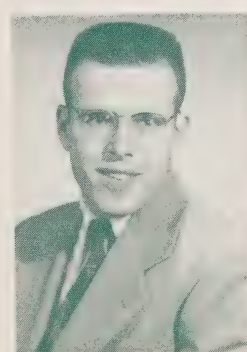
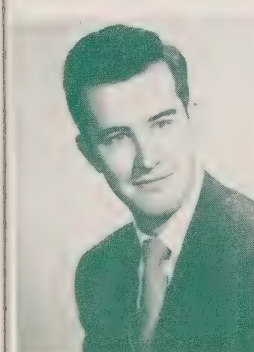
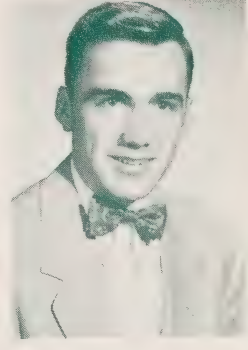
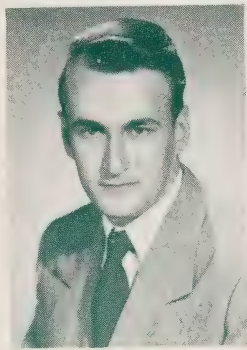
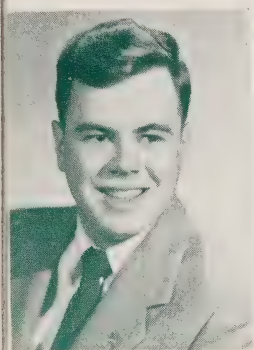


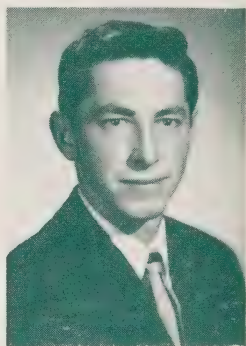
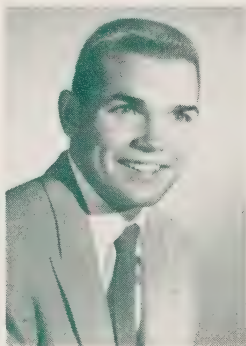
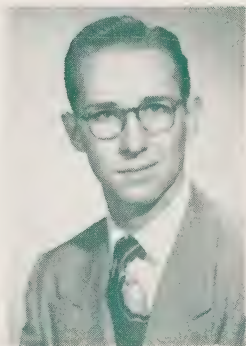
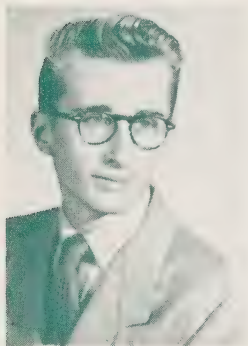
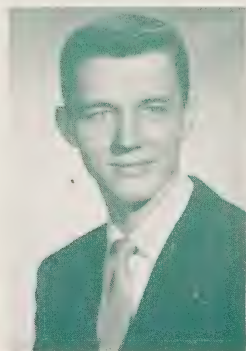
Koepp, Walter H.
B.A., B.S.
For. Prod. Research—Ass't Prof.

Steinhilb, Helmuth
B.S. in Forestry

Toole, Arlie W.
For. Prod. Research—Assoc. Prof.

Row 1: Jay W. Bastian, Richard Bidstrup, Walter R. Clark, Paul J. Gottwald.
Row 2: Kenneth Allen Holmes, David Knief, Paul J. Leach, Clark A. Lebo.





Row 1: Richard B. Little, Jack P. Lockwood, Paul Lewis Matson, David Ottoson.

Row 2: Thomas E. Smith, Jack C. Watson, Hal Alpheus Williams, Ross M. Wolfe.

Forestry Club



L. to r.: Row 1: G. H. Sheppard, C. G. Johnson, P. J. Gottwald, K. A. Holmes, Pres.; W. R. Clark, Sec.-Treas.; A. D. Schaffer, R. F. Wagner.

Row 2: R. D. Sundstrom, R. L. Richards, T. M. Corcoran, Emily V. Divinyi, D. E. Ottson, P. L. Matson, F. B. Bevis.

Row 3: J. P. Daniels, J. J. Dunn, S. R. Arducant, D. L. Bullock, D. A. Blankenship, N. F. Sloan, R. E. Clever, R. F. Htesman.



L. to r.: Row 1: J. C. Watson, J. P. VanDeusen, J. C. Byrd, D. A. Whalen, C. T. Hauge, F. C. Schunke, G. Ewert.

Row 2: P. R. Haara'a, J. V. Wal'dvogel, K. P. Robert, L. D. Golin, R. O. Bunster, L. W. Leitner, A. K. McCauley.

Row 3: J. E. Uhaz'e, P. J. Menne, W. C. Schwarting, L. S. Freese, R. C. Peterson, D. A. Clemens.

GEOLOGIC ENGINEER



CAL NG



ALFRED K. SNELGROVE,
Geological Engineering

Professor and Head of the Department of Geology, Dr. A. K. Snelgrove resigned from the Princeton University faculty staff in 1940 to accept the position at Michigan College of Mining and Technology.

Dr. Snelgrove is a graduate of McGill University, receiving his B.S. and M.S. degrees from that institution, and obtaining his Ph.D. from Princeton University.

Dr. Snelgrove was employed as a geologist by several organizations; for the Pure Oil Company of Wyoming; made a geological survey of Canada; led the Princeton Geological Expedition to Newfoundland; and was official geologist to the government in charge of a group of Tech students working on a geological survey in Newfoundland.

Among the numerous professional organizations in which Dr. Snelgrove holds membership is the Canadian Institute of Mining and Metallurgy. He is also a member of Theta Tau and Phi Upsilon fraternities. Dr. Snelgrove is listed in "American Men of Science"; "Who's Who in Engineering"; "Who's Who in Canada"; "Who's Who in Newfoundland"; and "Who's Who in American Education".



MacIntosh, Albert N.
A.R.S.M. in Mng. E., A.R.S.M. in
Geology, M.S.
Geology—Coord. of Aviat. Train.
Prof



Nielson, James M.
B.S., M.S., Ph.D.
Civ. Engineering

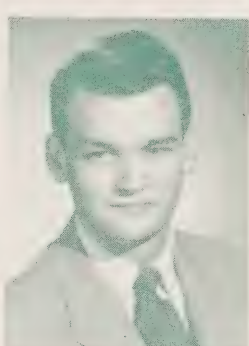
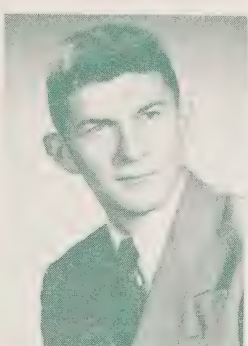
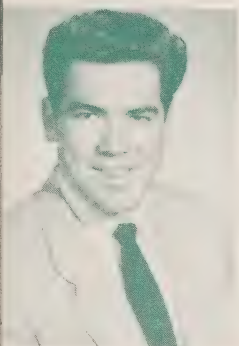
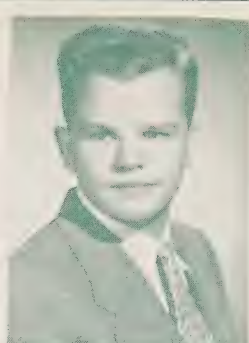
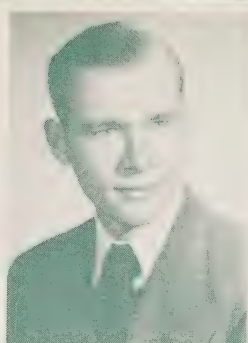
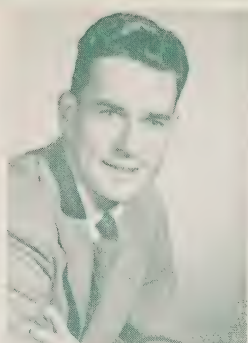


Spiroff, Kiril
B.S., E.M., M.S.
Geol. Eng.—Assoc. Prof

Row 1: G. Robert Adams, Charles S. Anderson, John Brooke, Norman James Brown.

Row 2: Thomas R. Bur, John A. Chisholm, Robert D. Dibble, Virginia L. Doane.





Row 1: Lee Erickson, David M. Knowles, Quinn C. Laukel, Donald J. Leonard.

Row 2: R. G. McGinn, Dana C. Parker, Tom Paul, Raymond D. Pilon.

Row 3: Harry L. Taylor, Frank J. Wercinski, James G. Wark.

Rock Knockers Club



L. to R., Row 1: Quinn Laukel, James Schwaiger, Roger Post, James Tanis.

Row 2: Jack Johnson, Francis Shape, Dana Parker, Dick Schottler, Sidney Williams, William Bodell.

Row 3: Robert Howard, Roger Culver, Tom Reichert, Bruce Karinen.





BURTON L. FRYXELL,
Languages

Dr. B. L. Fryxell came to Tech in the fall of 1953. He received his college education at the University of Wisconsin where he received his B. A. and M. A. and his Ph. D. in 1937.

Dr. Fryxell was an instructor at James Millikin University from 1937 to 1941. He became head of the English Department there in 1941 and continued to 1947. From 1947 to 1950 he was head of the Department of English at Fairmont State College, West Virginia. He was Professor of English at the University of Alaska from 1950 to 1952. He continued with the University of Alaska from 1952 to 1953 doing research which resulted in the publication of the book, *Blazing Alaska's Trails*.

Dr. Fryxell is a member of the American Association of University Professors and the American Scandinavian Foundation.

LANG AND HISTORY AND



UAGES

GEOGRAPHY



ELLA LUCILLE WOOD,
History and Geography

Since 1939, Dr. Ella Wood has been Professor and Head of the Department of History and Geography. Dr. Wood is a graduate of Milwaukee-Downer College, receiving her B.A. degree from that institution. She obtained her M.A. and Ph.D. degrees from the University of Wisconsin.

Dr. Wood is widely recognized in the Upper Peninsula as an authoritative speaker on foreign affairs.

Dr. Wood is a member of many professional organizations. She is also a member of Sigma Xi, Sigma Delta Epsilon, Theta Chi Epsilon, and Phi Beta Kappa.



Good, Raymond Allen
A.B., M.A.
History—Ass't Prof.



Benedict, Stewart
A.B., M.A.
Languages, Ass't Prof.



Van Brocklin, Ralph
A.B., M.A., Ph.D.
History, Inst.



Impola, Richard A.
B.A., M.A.
Languages, Inst.

Price, Sherwood R.
B.A., M.A.
English—Assoc. Prof.



Shubert, B. Franz
B.S., M.Ed.
Dir. of Music

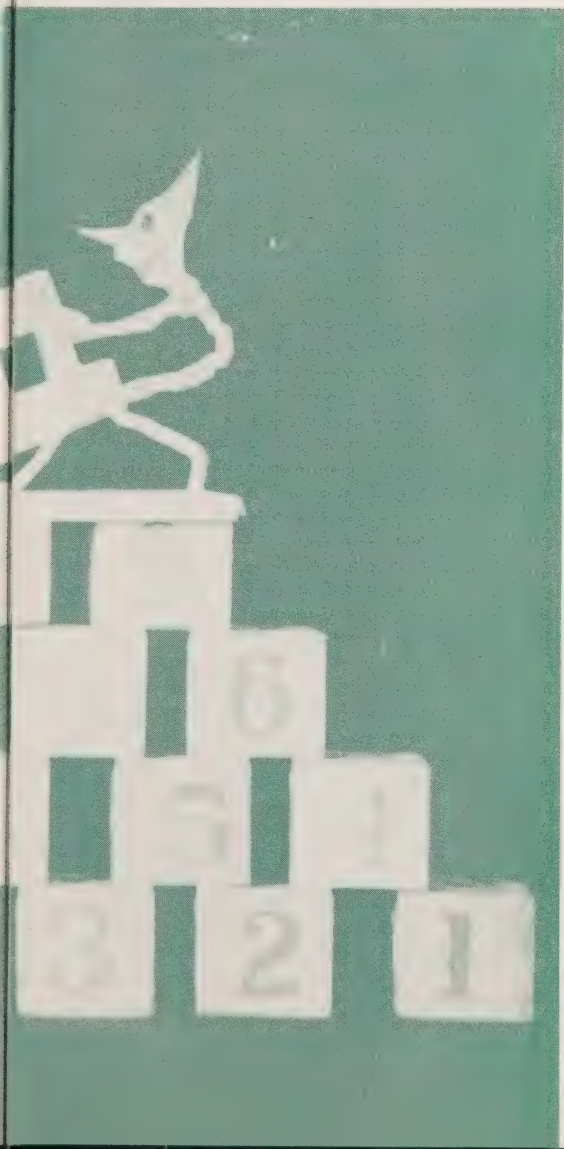




MATHEMAT



TICS



JOHN M. HARRINGTON,
Mathematics

Heading the Department of Mathematics of the Michigan College of Mining and Technology is Professor John M. Harrington. His appointment in July, 1944, was the result of the retirement of Dr. James Fisher.

Professor Harrington is a graduate of the Michigan College of Mining and Technology, and received the B.S. and E.M. degrees from this institution. He also holds the Ph.M. degree from the University of Wisconsin.

His professional organization memberships in mining and engineering societies include The American Association for the Advancement of Science.

He is a member of Tau Beta Pi Association and Theta Tau Fraternity, and also is a member of the Lions Club and the American Legion. Professor Harrington is listed in "Who's Who in Engineering."



Anderson, Howard B.
A.B., M.A.
Mathematics—Ass't Prof.



Anderson, Paul V.
A.B., M.A.
Mathematics—Ass't Prof.



Bahrman, George E.
B.S., M.S.
Mathematics—Ass't Prof.



Boggs, Arthur B.
B.S., M.A.
Mathematics—Ass't Prof.



Roberts, Earl
B.A.
Mathematics—Ass't Prof.



Rodefer, Ralph A.
A.B., A.M.
Mathematics—Ass't Prof.

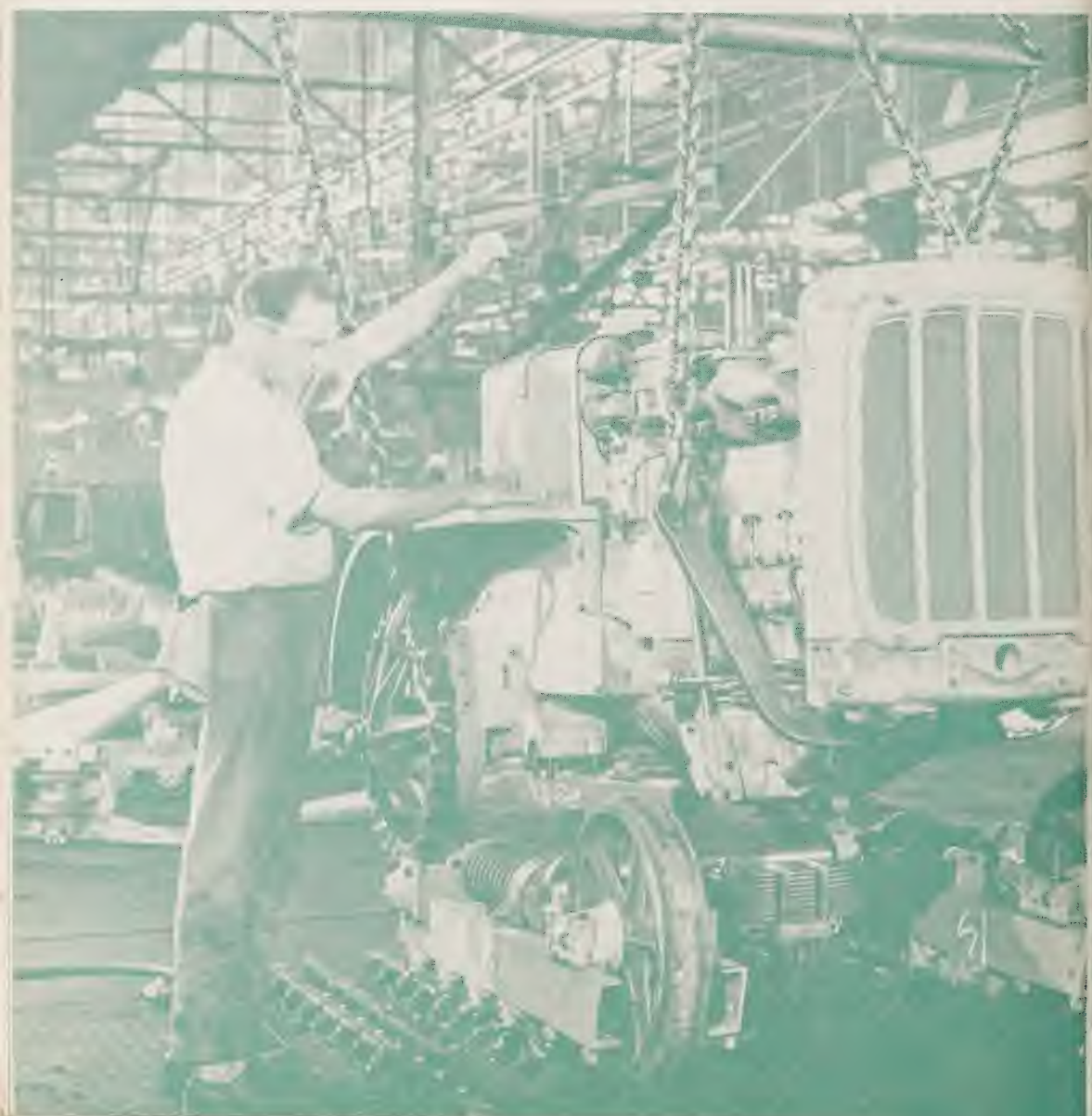


Stipe, C. George
A.B., A.M., B.S., M.S., C.E., Ph.D.
Mathematics—Prof.



Vichich, Thomas Edward
B.S.
Mathematics—Ass't Prof.

M E C H A N E N G I N E E



CAL RING



ALMON P. YOUNG,
Mechanical Engineering

Professor A. P. Young was appointed Head of the Department of Mechanical Engineering, succeeding Dr. R. R. Seiber, who retired on July 1, 1948 after heading the department since 1926.

Professor Young is a graduate of Purdue University and holds the B.S. and M.E. degrees from that institution. Prior to his joining the Michigan College of Mining and Technology Faculty Staff in 1930 he was employed for six years as manager of the Nodiad Industrial Institute of Nodiad, India.

Professor Young holds membership in the American Society of Mechanical Engineers, the American Welding Society and the Society for the Advancement of Engineering Education. His social clubs include the American Legion, Tau Beta Pi fraternity, and Scabbard and Blade. He is also the author of numerous engineering research reports and articles.





Beyer, Richard
B.S.
Mechanical Engineering



Cocking, Thomas F.
Mechanical Engineering



Elwell, G. R.
B.S.
Mech. Eng.—Ass't Prof.



Dennis, Tom
Mechanical Engineering

Hagen, Robert Reed
B.S., M.A.
Mech. Eng.—Ass't Prof.

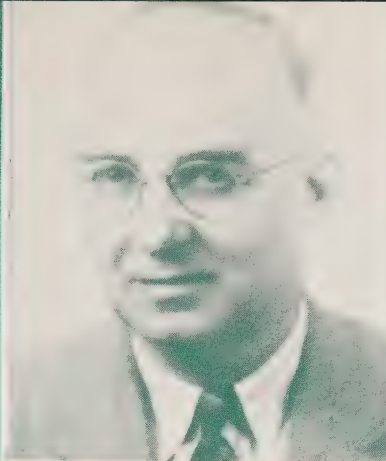


Hawn, Herbert W.
B.S. in Mng. E., E.M., B.S. in M.E.
Mech. Eng.—Assoc. Prof.





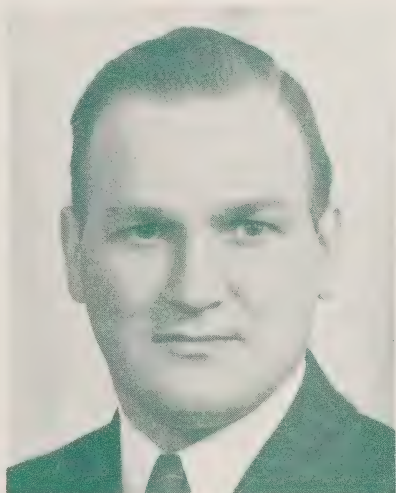
Hellman, Gordon A.
B.S.
Mech. Eng.—Ass't Prof.
Engineer, Central Heating Plant



Hughes, Marion W.
B.M.E., M.E.
Mech. Eng.—Ass't Prof.



Hyde, Robert
B.S., M.A.
Mech. Eng.—Ass't Prof.

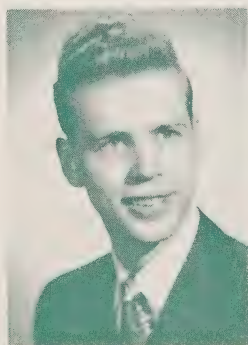


Koski, Paul I.
B.S.
Mechanical Engineering



Niemi, Edwin William
B.S.
Mech. Eng.—Assoc. Prof.

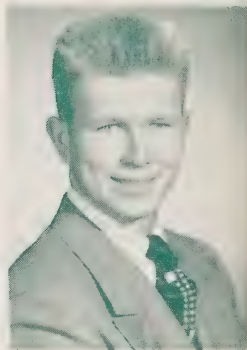
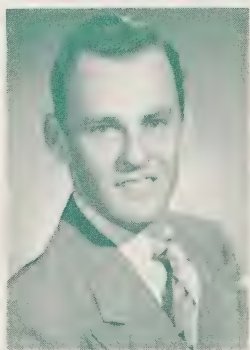
Wittig, Frederick E.
B.S., M.M.E.
Mech. Eng.—Ass't Prof.



John F. Pohlman, M.S.



Ray Branz

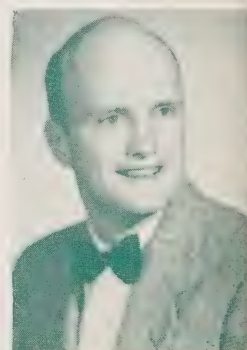


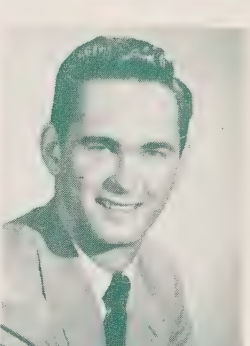
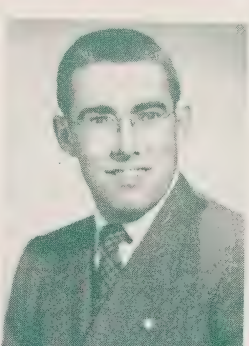
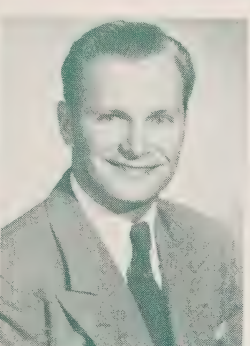
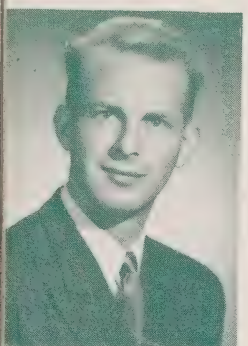
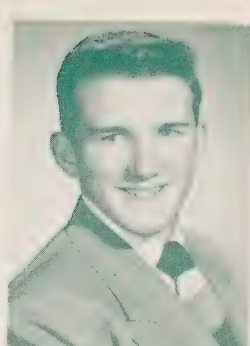
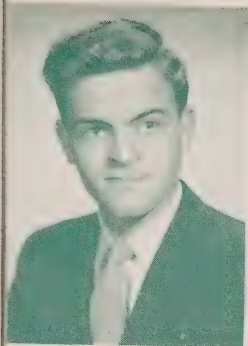
Top, row 1: Keith E. Cole, Jay B. Coon, William R. Corkin, Donald K. Cunningham.

Row 2: Wilbert L. Dahlgren, Donald Dobbelaire, Robert Durham, Jack D. Flaa.

Bottom, row 1: George A. Hagelthorn, Ken H. Hallgren, William Hartley, James G. Hunt.

Row 2: Ward J. Frea, Jr., David W. Gunning, Arthur J. Hill, Donald L. Karr.



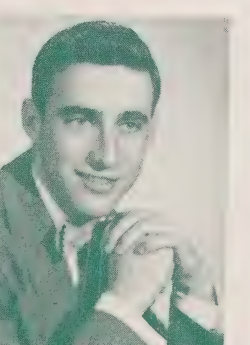
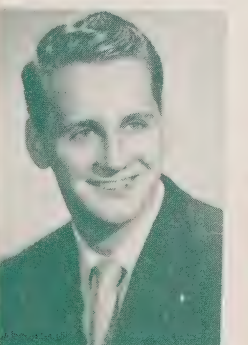
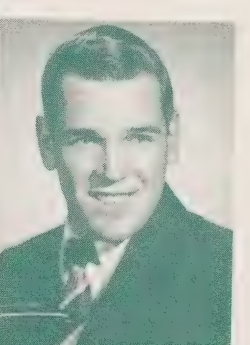
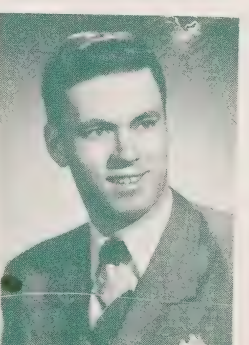
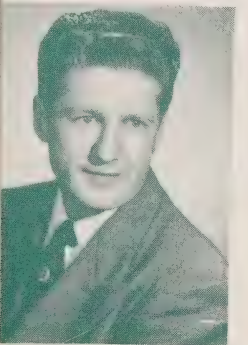


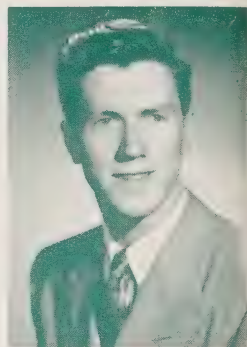
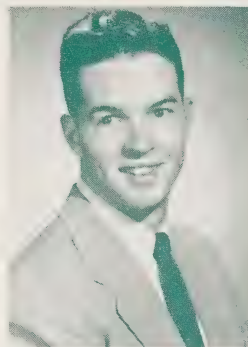
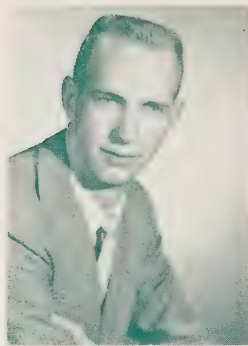
Top, row 1: Kaye D. Jackson, Thomas A. Kirby,
Walter G. Kreg, George F. Kruggal.

Row 2: Thor Lande (Grad.), Robert T. Larson,
Francis J. Leonard, Donald F. McMaster.

Bottom, row 1: Felix Mickus, Norman Miller,
William Keith Ojala, Fred Onkalo, Jr.

Row 2: James R. Pintar, Harold J. Pratt, Gary
Prin, William A. Reynolds.



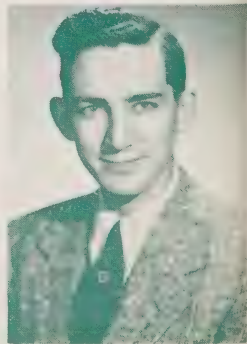
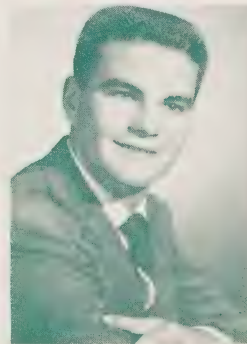
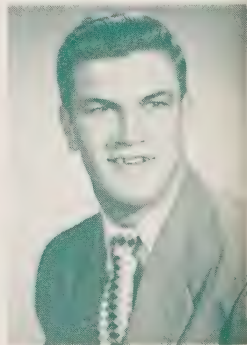
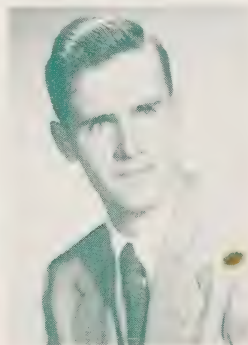


Top, row 1: Richard Aittama, Robert Batsche,
James B. Bay, Charles Butler.

Row 2: Karl F. Schneider, Douglass Seeber,
Hsien-Hwei Hunter Shu, Robert W. Soduberg.

Bottom, row 1: Andre J. Stromquist, Harry
Stryker, Leslie Talo, Ronald D. Trudell.

Row 2: John Volpel, Walter H. West, James C.
White, Don Wilderspin.



American Society of Mechanical Engineers



Row 1: K. D. Jackson, H. Nelson, C. R. Butler, W. K. Ojala, Treasurer; D. K. Cunningham, Chairman; F. E. Wittig, Honorary Chairman; J. C. White, Vice-Chairman; G. F. Kruggel, Secretary; E. B. Davis.

Row 2: A. J. Hill, S. T. Wineman, J. Tobar, C. O. Lacombe, J. H. Volpel, N. H. Miller, R. W. Fink, G. E. Addison, S. P. Langford, I. L. Smith, J. K. Hill.

Row 3: R. L. Knopp, H. F. Levine, C. W. Hultman, C. W. Williams, K. D. Mohrlok, R. J. Wagner, R. A. Consie, R. J. Mattson, D. E. Stimpson, B. J. Finn, C. P. Frans.

Society of Automotive Engineers



L. to r. Row 1: F. Onkalo, W. D. Hartley, Vice-Chairman; W. R. Corkin, Chairman; L. C. Talo, Sec.; A. J. Stromquist, Treas.; W. J. Frea.

Row 2: G. B. Prin, H. L. Stryker, R. J. Tulikangas, W. K. Ojala, D. L. Karr, A. J. Koski, W. L. Dahlgren, R. Bayer, Faculty Advisor.

Members not shown: E. Niemi, Faculty Advisor; R. Larson, W. Kreg, N. Heikkinen, K. Cole, E. Suppelsa, C. Peterson, J. Hunt, Program-Chairman.

METALLURGY ENGINEER



CAL NG



CORBIN T. EDDY,
Metallurgical Engineering

Heading the Department of Metallurgy is Dr. C. T. Eddy. He received the B.S., E.M. and Ph.D. degrees from the Michigan College of Mining and Technology and attended the University of California and the Technische Hochschule of Aachen. In 1927 Dr. Eddy joined the Michigan Tech staff as an instructor in Metallurgy, and in July of 1940 he was appointed head of his department.

Dr. Eddy has engaged in research and consulting work and is the author of numerous publications in the field of metallurgy. He was awarded the Alfred Nobel prize in 1931 for, "The most outstanding contribution to the metallurgical field of science by men under thirty years of age."

Dr. Eddy is listed in "Who's Who in Engineering"; "American Men of Science"; "America's Young Men"; "Who's Who in the Middle West"; and "Who's Who in American Education". He holds membership in a number of metallurgic and scientific organizations including the Institute of Metals in London. His social groups include Tau Beta Pi, Alpha Sigma Mu, and the Theta Tau fraternities.





Boyd, Gilbert Wing
B. Met. E., M.S.
Metal Eng.—Assoc. Prof.



Drier, Roy Ward
B.S., E.M., E.Met., M.S., Ph.D.
Theor. and App. X-Rays—Prof.



Gertz, William B.
B.S.
Met. Eng.—Assoc. Prof.



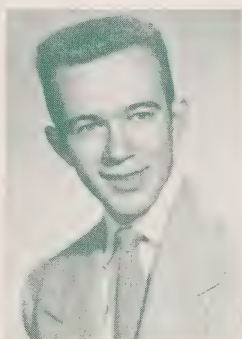
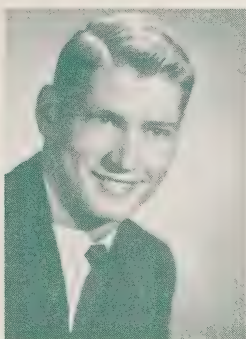
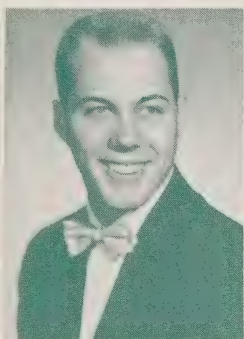
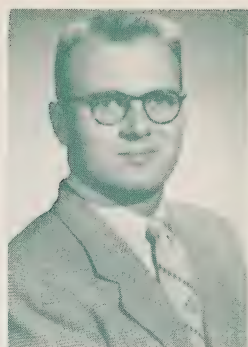
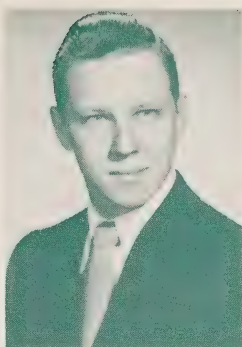
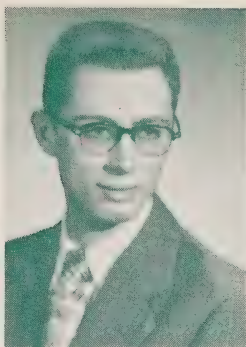
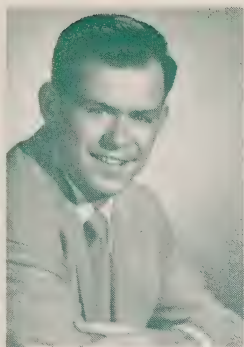
Gokcen, Nerzat A.
B.S., M.S., D.Eng.
Metal. Eng.—Assoc. Prof.

Meese, Harold
B.S.
Assistant Prof.



Smith, Russell J.
B.S., M.S.
Metal. Eng.—Assoc. Prof.



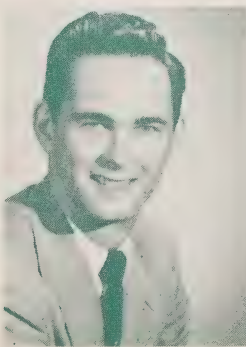
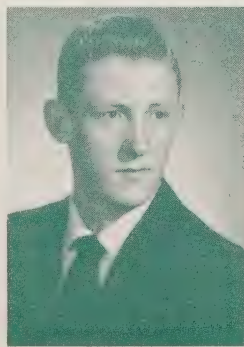
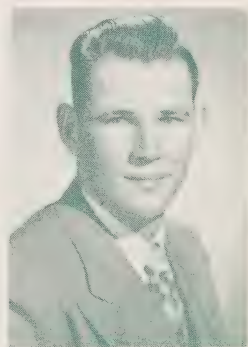
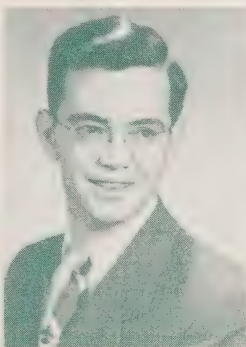


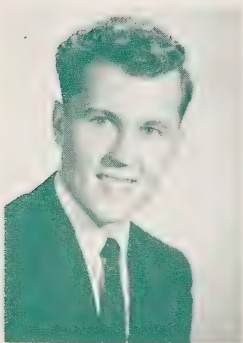
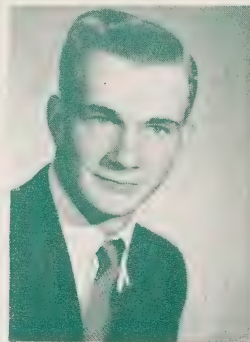
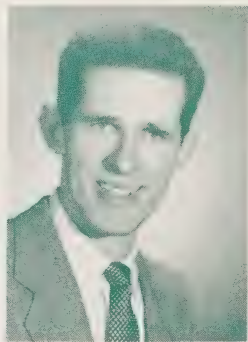
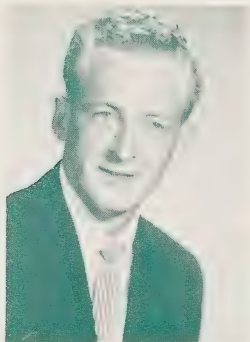
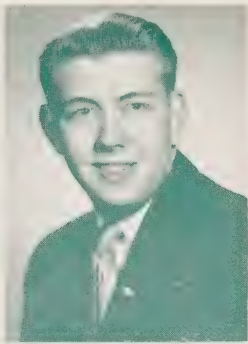
Top, row 1: Robert F. Brandt, John W. Burlingame, Deal J. Campbell, John A. Dlouhy.

Row 2: Ervin R. Easton, Robert Engstrom, Duane H. Feisel, Stanley Friesen.

Bottom, row 1: Geraldine A. Hartley, Robert P. Jewett, Ronald Kellokoski, Kenneth M. Kulju.

Row 2: Lloyd F. Lockwood, Donald F. McMasters, Arbutus E. Nakkula, Norman A. Rautiola.





Top, row 1: John L. Reuss, Joe W. Rosenberg, Victor W. Storhok, Paul H. Tormala.

Row 2: Floryan B. Wercinski, Richard J. Zander, Gordon Zipperer.

Center: Grads—Lloyd E. Rautiola, John A. Van Westenburgh.

Alpha Sigma Mu

Its members linked together by the bond of college fellowship and by common interests in the same profession, Alpha Sigma Mu, a national honorary fraternity, was established at this college during the month of January, 1932. Its purposes are to recognize scholastic attainments among students in metallurgical engineering or outstanding attainments among alumni, to aid in bringing the members more closely together, to be an effective link between the student and the industrial metallurgical organizations, and to be of lasting benefit to its members not only while in college, but after leaving college as well.



L. to r.: Row 1: J. A. VanWestenburg; D. H. Feisel; N. A. Rautiola, Pres.; J. W. Burlingame, Sec.; P. H. Tormala, Vice-Pres.

Row 2: V. W. Storhok, D. F. McMaster, L. F. Lockwood, B. A. Kruska, J. G. Wark.

Members not shown: R. P. Jewett, Treas.; R. G. Kellokoski, J. W. Rosenbery, R. F. Brandt, J. L. Reuss, R. G. Sharraw, E. J. Bishop, J. F. Hrovatich, J. A. Radler, L. E. Rautiola.

American Society For Metals



L. to r.: Row 1: D. H. Feisel, R. J. Zander, V.-Pres.; J. A. Dlouhy, Pres.; J. W. Burlingame, Sec.-Treas.; B. A. Kruska.

Row 2: N. A. Rautiola, A. I. Kempinen, L. F. Lockwood, K. J. Kulie, F. B. Wercinski, D. J. Campbell.

Members not shown: Mrs. Geraldine Hartley, E. J. Bishop, K. G. Brickner, R. Crawford, J. D. Gruner, G. H. Heitman, J. F. Hrovatich, R. P. Jewett, J. M. Kazaroff, E. J. Koepfel, J. A. Van Westenberg, G. N. Zipper, R. G. Kellokoski, K. M. Kulju, T. Lande, J. M. Mavec, Jr., Miss Arbutus E Nakkula, P. A. Opie, J. W. Rosenberry, L. E. Rautiola, M. M. Roberts, Jr., W. J. Seppi Hunter Shu, R. G. Sharraw, V. W. Storhok, P. H. Tormala.

MINER DRESS I



A L N G



NICHOLAS H. MANDERFIELD,
Mineral Dressing

Professor Manderfield was born in Hubbell, Michigan, on March 25, 1900. He received a B.S. degree at Michigan College of Mines in 1921 and a degree in Metallurgical Engineering from the same school in 1925.

From 1923-24 he was a research engineer for the Anaconda Copper Company. In 1925 he became Associate Professor of Metallurgy and Ore Dressing; until 1935 when he became the professor and the head of the department.

In 1940 when the new Mineral Dressing department was formed Professor Manderfield was appointed head.

The Professor belongs to the Engineering Education, and Mining and Metallurgical Engineering Associations, as well as the Lake States Mining Institution.

He has been the author of a number of private consulting reports as well as several made public. Notable of these are "Low Grade Ore of Michigan Iron District", "Native Copper Ore Dressing", and his latest which is co-authored with Messrs. Tolonen and Jasberg, is "Concentration Characteristics of the Low Grade Iron Ores of Michigan."





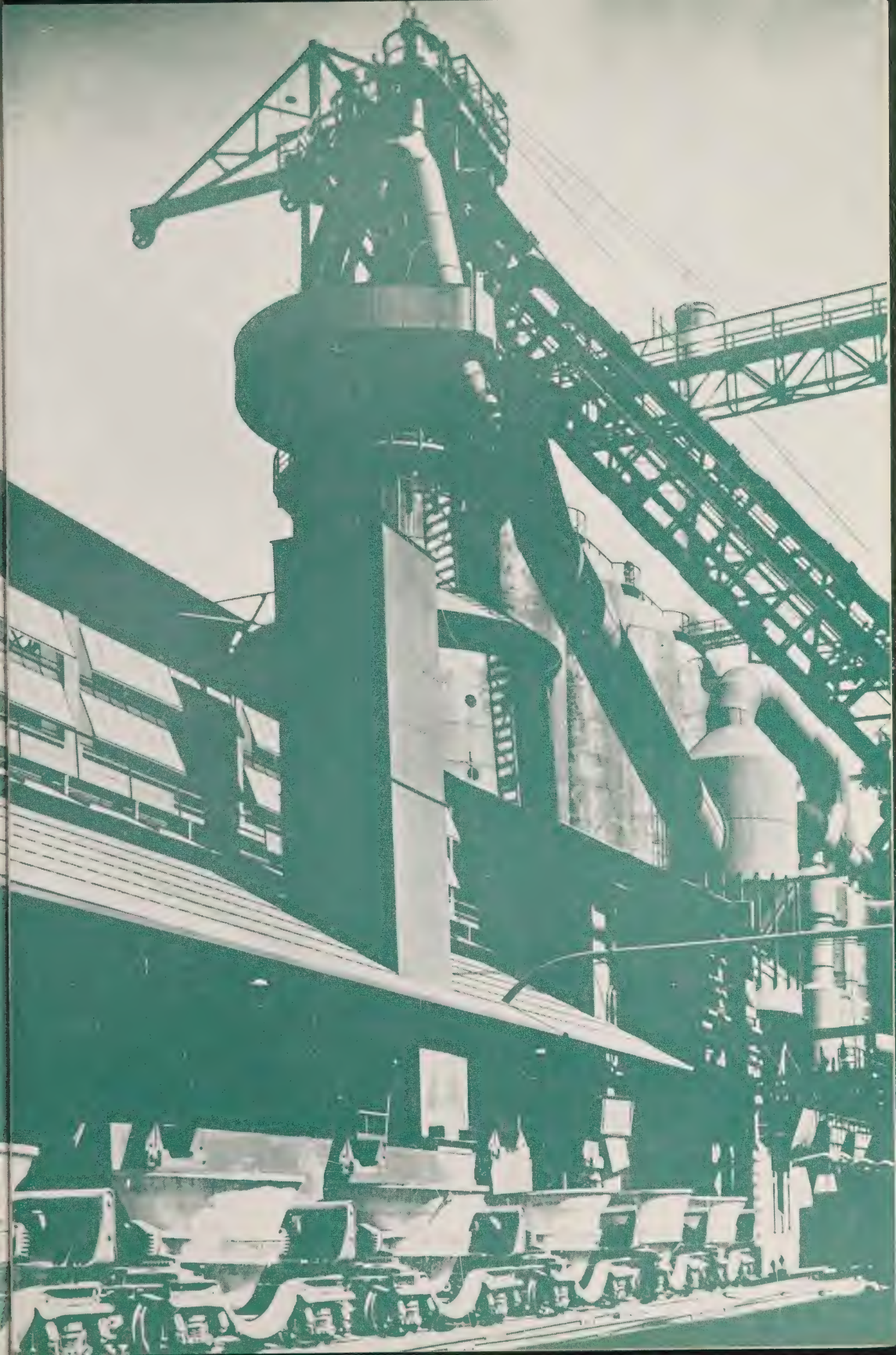
Keck, Walter Edgar
B.S., E.M., M.S.
Mineral Dressing—Assoc. Prof.



Tolonen, Frank J.
B.S., E.M., M.S.
Mineral Dressing—Assoc. Prof.



Bradford P. Edgerton



MINING ENGINEER



N G



J. MURRAY RIDDELL
Mining Engineering

Professor J. Murray Riddell is head of the Department of Mining Engineering.

He attended the Illinois Institute of Technology for six years, and subsequently won the degrees of B.S. and E.M. at the Michigan College of Mining and Technology.

While most of Professor Riddell's industrial experience has been confined to the iron ore regions of Lake Superior, he has done work in sixteen states and in Canada.

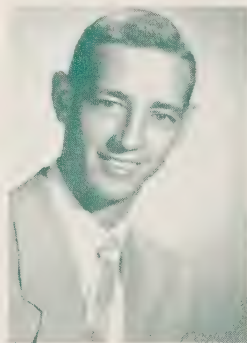
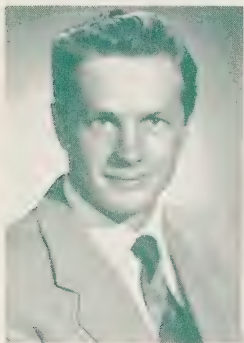
He is a member of the American Institute of Mining and Metallurgical Engineers, the Mining and Metallurgical Society of America, and Tau Beta Pi Association. As past chairman of the Mining Methods Committee of A. I. M. E., he continues to actively participate in the work of that group as a sub-chairman.



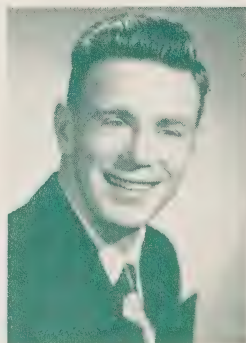
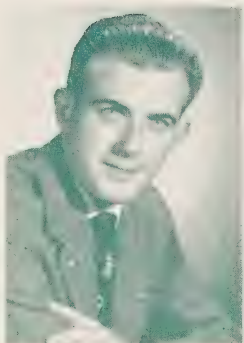


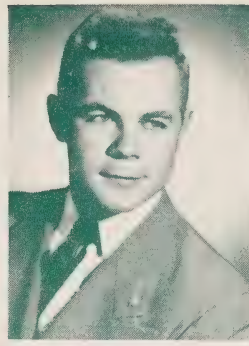
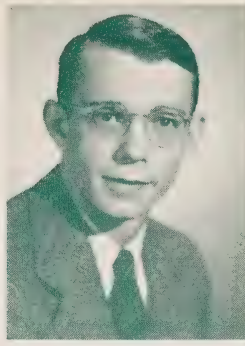
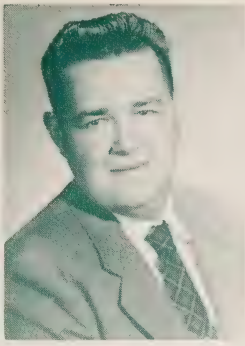
Harry, Charles M.
B.S., E.M.,
Mining Eng.—Assoc. Prof.

Row 1: James A. Bakkala, Lloyd B. Hansen,
William S. Burke, David Cicchi.



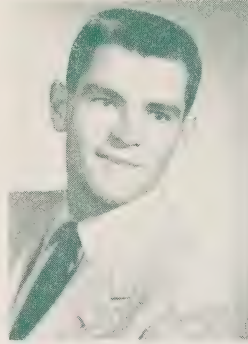
Row 2: Charles L. Elliot, Donald Hall, Russell M.
Hort, Jr., Frank J. Klima.





Row 1: Pentti W. Kyhkyinen, David E. Nicholson, Gordon S. Soine.

Row 2: Jim Wark, Ronald W. Whiton



American Institute of Mining and Metallurgical Engineers

The American Institute of Mining and Metallurgical Engineers was organized in 1871 and incorporated in 1905. The object of the Institute is the promotion of arts and sciences connected with the economic production of useful metals, and the welfare of those employed in these industries. Bi-weekly meetings are held by the student chapter on campus, at which talks or movies are presented on themes related to the mineral industries.

L. to r.: Row 1: V. E. Metzger, R. L. Baker, Treas.; L. B. Hansen, Vice-Pres.; C. L. Elliot, Pres.; R. D. McChesney, Sec.; A. L. Engstrom, L. N. Schemmel.

Row 2: F. M. Makarinsky, F. J. Klima, W. M. Vlasak, J. B. Brooke, B. P. Inkpen, N. J. Brown, G. S. Soine, L. Erickson.

Row 3: D. E. Nicholson, C. W. Haynes, R. D. Pilon, C. S. Anderson, F. H. Shape, C. C. Kugel, H. W. Mullejans, P. M. Lacy.



ENGINEER PHYSI



N G
C S



T. C. SERMON, Physics

Professor T. C. Sermon, successor to Dr. J. H. Service, heads the Department of Physics. Professor Sermon attended Central Michigan College of Education, Mt. Pleasant, Michigan, receiving the A.B. degree from that institution. He acquired his B.S. and M.S. degrees at Michigan Tech.

He has carried on extensive research work in the field of geo-physics, and is also the author of numerous articles which have been published in technical journals.

He holds membership in engineering and physics societies and is a member of Sigma Rho Fraternity. His social memberships include the Masonic Order.



Bacon, Lloyd O.
B. Geol. E., M.S.
Geophysics—Ass't Prof.



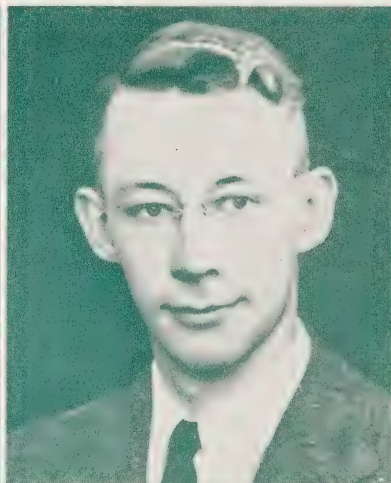
Chimino, David F.
B.S.
Engineering Physics



Gilbert, William F.
B.S.
Phys.cs



Hinzmann, Paul R.
B.S., M.A.
Physics—Ass't Prof.



Janke, Robert A.
A.B., B.S.
Physics



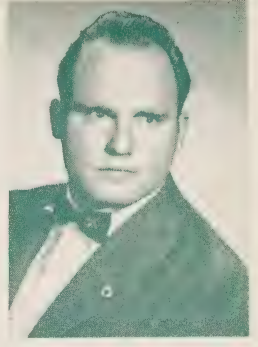
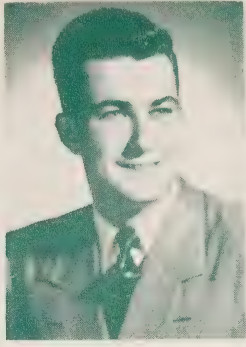
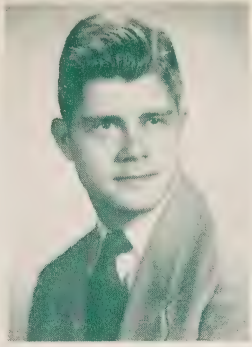
Longacre, William A.
B.S., E.Met., M.S.
Physics—Prof.

Mitchell, H. Rees
B.S., Ph.D.
Physics—Assoc. Prof.

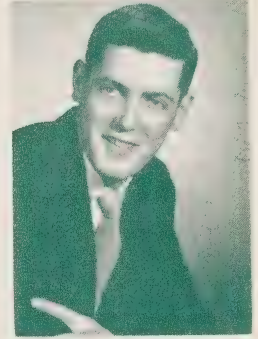


Pratt, Chester J.
B.S., M.S.
Physics—Assoc. Prof.





Row 1: David L. Berquist, Edward Krieger, Jr.,
William E. Mezzano, Francis I. Rose.
Row 2: Gordon R. Sanborn



American Institute of Physics

The Physics Club for the first time entered a skit in the Carnival Stage Review. The skit, Dave Chimino's creation, took a first place.

At our meetings the famous Millikan Oil Drop experiment was performed, and last year's Engineering Show exhibits were set up and explained.

There were three outings at Prof. Sermon's camp, which included smelt fries, horse-shoeing, dart throwing, hunting, card playing and wharf repairing.



L. to r.: Row 1: R. L. Brooke, J. J. Hussin, Sec.-Treas.; B. F. Davick, G. R. Sanborn, President; R. C. Hanson.

Row 2: D. L. Starner, M. J. Carr, R. F. Mattson, F. I. Rose, T. J. Herron, H. G. Schreiber, R. A. Mattson, K. M. Barlow, M. A. Borton.

Members not shown: L. Aho, B. Boy, R. Dennis, E. Krieger, Phyllis LeGault, W. Ross, B. Carlson, P. Parks, H. R. Mitchell, Faculty Advisor.

AIR FORCE

RESERVE OFFICERS TRAINING



CORP.



LIEUTENANT COLONEL
LESLIE C. FENSKE

Lieutenant Colonel Fenske, Professor of Air Science and Tactics, graduated from Michigan State College in 1933 with a Bachelor of Science Degree in Chemical Engineering.

Receiving his initial commission in March of 1942, he entered active duty the following month. From 1942 to July, 1950, he served with the Ferrying Command, the Air Transport Command, and the Military Air Transport Service. From 1945 to 1948 he served in the North Atlantic area, receiving a commission in the regular Army as permanent Captain. In 1948 he was transferred from the Army to the Air Force being promoted to permanent Major in July of 1948 and to permanent Lieutenant Colonel in December of 1949.

During the two years prior to September of 1950, when he joined the college staff as Professor of Air Science and Tactics, Colonel Fenske served as Air Inspector for Personnel and Administration at Headquarters, Military Air Transport Service at Andrews Air Force in Washington, D. C.





Cooksey, Perry E.
Capt. USAF—B.S.
AFROTC



Matlak, Edward W.
Capt. USAF
AFROTC



McGinnis, Robert A.
Major USAF—M.A., Ph.B.
AFROTC



Miracle, Andrew W.
Capt. USAF
AFROTC

Finkbiner, Billy W.
M/Sgt. USAF
AFROTC



Fulcher, Finley E.
M/Sgt. USAF
AFROTC





Hackmeier, Daniel
M/Sgt. USAF
AFROTC



Lee, Raymond C.
S/Sgt. USAF
AFROTC



Seddon, John R.
M/Sgt. USAF
AFROTC

SIGMA ALPHA



L. to r.: Row 1: N. A. Rautiola, D. C. Parker, Exec. Officer; J. J. Dunn, Commanding Officer; J. H. Butler, Adjutant; R. F. Cooper, Operations Officer.

Row 2: D. Dirian, P. Walker, R. J. LeBlanc, R. J. Sieraski, J. D. Flaa, R. E. Quilici, G. C. Proctor.

Row 3: R. A. Hasse, G. Barladelis, C. W. Hultman, H. F. Levine, K. D. Jackson, W. L. Dahlgren, V. A. Chylinski.

ARMY ENGINEERS

RESERVE OFFICERS TRAINING

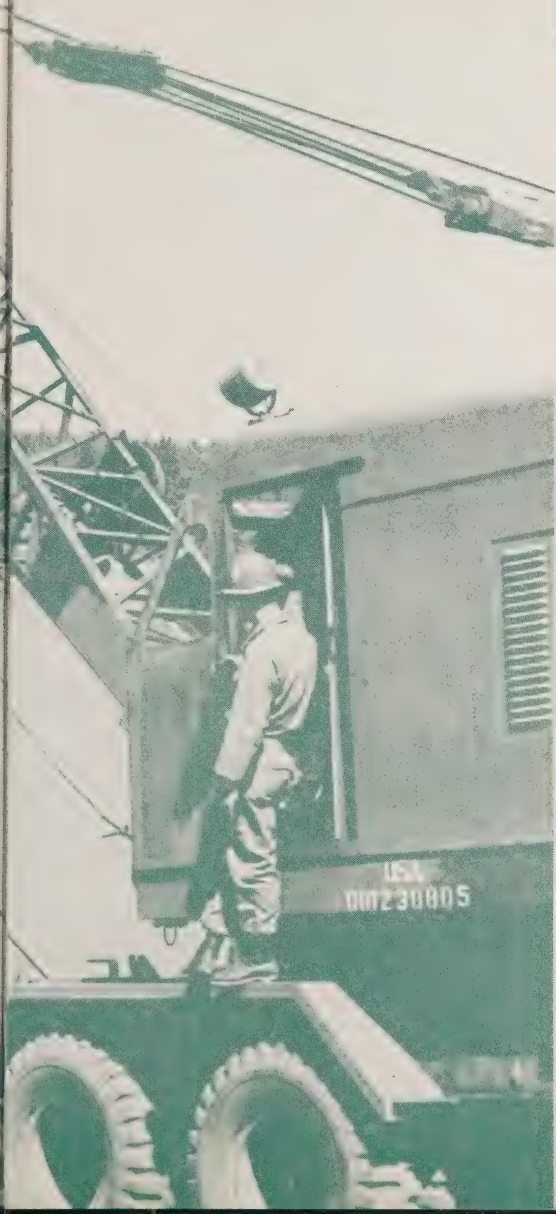


CORP.



LIEUTENANT COLONEL
JOHN M. CROMELIN

Colonel Cromelin joined the Michigan Tech faculty in 1952, as professor and head of the Department of Military Science and Tactics. A graduate of the United States Military Academy, he earned his master's degree at the University of California in 1939. His military service includes construction and logistics work in Europe, Alaska, and the continental United States. He is a member of the Society of American Military Engineers and of Rotary International.





Beyersdorff, L. E.
Capt. U. S. Army



Kubelius, Anthony
Capt. U. S. Army



Norris, Harry A.
Capt. U. S. Army

Davis, Sidney E.
SFC
U. S. Army

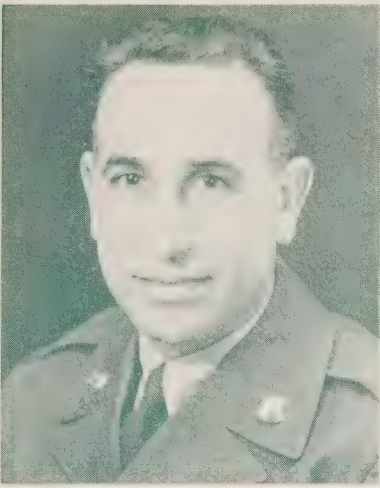


DeVol, Howard C.
SFC
U. S. Army



Holik, David A.
SFC
U. S. Army





Gillest, Edmund A.
M/Sgt.
U. S. Army



Manske, Raymond W.
SFC
U. S. Army

Society of American Military Engineers



L. to r.: Row 1: W. E. Barber, L. N. Schemmel, R. S. Scudder, Treasurer; R. B. Carlson, President; W. L. Adams, Secretary; J. N. Chaffee, R. J. Nankee.
Row 2: K. D. Walls, M. T. Szukhent, E. L. Heidemann, J. C. Gilbo, D. A. Hinckfoot, D. C. Bowen, R. C. Lunardini, A. L. Jarvela, L. W. North, R. J. Wagner.
Row 3: J. Q. Peterson, J. W. Kytola, G. J. Sperry, P. A. Slominski, F. D. Meyers, W. O. Drummond, G. F. Boone, J. M. Kreiger, L. J. Mazzaro.

AFROTC Rifle Team



L. to r.: Row 1: J. T. Bertva, J. K. Hill, W. K. Ojala, B. A. Bruszka, R. T. St. Amant, B. W. Finkb'ner, Coach.

MacArthur's Engineers



L. to r.: Row 1: H. R. Norris, Captain; J. Q. Peterson; J. W. Kytola; R. G. Gerheiser, Drillmaster; E. A. Giljest, Masterseargent; J. R. Richardson, Sqd. Leader; W. J. Ross, Sqd. Leader; M. T. Szukhent, 1st. Sgt.; J. F. Wilson, Sqd. Leader.

Row 2: J. M. Krieger, R. O. Fries, B. J. Nevins, D. R. Randle, Sqd. Leader; W. C. Schwarting, L. W. Worth, F. D. Meyers, J. N. Chaffee, F. M. Dunwell.

Row 3: L. J. Mazzaro, E. G. Strenzel, R. O. Bunster, D. M. Thayer, C. W. Harnden, D. L. Rousar, J. B. Englund, K. D. Walls, G. F. Boone.



MILITARY

HONORARY COLONELS VALERIE DEMARS AND SANDRA GENDZWELL



BALL

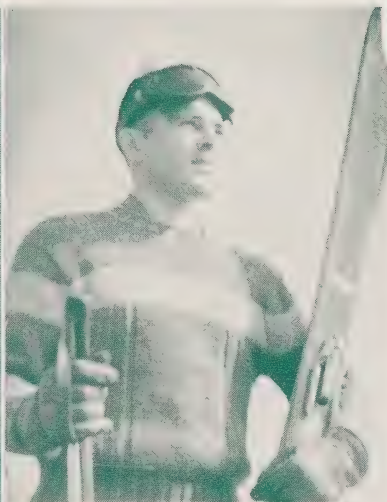
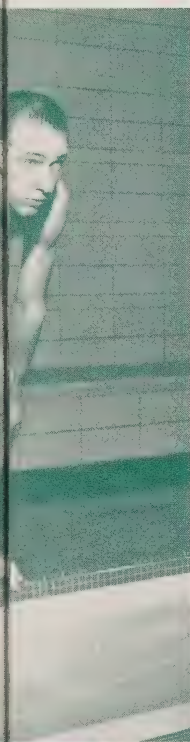
COLONELS AND HONORARY COLONELS LEAD THE GRAND MARCH



ATHLET



ICS



ALAN J. BOVARD,
Athletic Department

Professor and Head of the Department of Physical Education and Director of Athletics, is Alan J. Bovard, who fills the vacancy created by the death of Professor Donald P. Sherman.

Professor Bovard attended the University of Michigan and received the A.B. degree from that institution in 1930. He was a member of the University of Michigan Varsity football team during his college years and was placed on several All-Conference teams.

His coaching career began at his alma mater, where he served as line coach in 1930. Before accepting his position at Tech, he coached the state basketball championship team and unofficial state football champs at Lansing Sexton High School.

Mr. Bovard's outstanding achievement with Tech's undefeated football team in 1949 led to his election in 1950 to the National Football Coach's Hall of Fame.

FOOTBALL





RESULTS

Tech		Opp.
7	Stevens Point	24
18	Northland	0
0	Wheaton	29
12	Ferris	0
18	Northern	19
16	Superior	34
6	Quincy	42



R. to L. Row 1: J. Anderson, G. Hill, J. Nyquist, H. Williams, G. Taglienti, K. Gillet, B. Grosser, R. Trudell, E. Bishop. Row 2: R. Benoit, Coach, F. Grantra, R. MacKenzie, G. Sinko, D. Wollney, J. Anderle, G. Mroz, A. Taylor, G. Heilala, A. Bovard, Head Coach. Row 3: V. Cox, Coach, K. Masse, F. Schroder, T. Lajeunesse, B. Fabro, T. Coleman, B. Sager, D. Gustafson, L. Holmstrom, A. Renfrew, Coach. Row 4: F. Slawinski, Mgr., G. Gross, R. Chase, D. George, B. Start, G. Foco, J. Fuller, K. Parish, R. Jablonski. Row 5: R. Batsche, Trainer, D. Clemens, L. O'Conner, E. Martin, C. Nelson, P. Vitton, R. Bates, R. Robbins, K. Hawk, Coach.



1953 FOOTBALL

The 1953 football season was the most dismal in many years, the 2-5 record being the worst a Bovard-coached Huskie team has ever had. Playing for the first time in their college career under a limited-substitution rule, many players found the going too rough and left the squad. As a result, Coach Bovard had only six seniors, four ends, a guard, and a halfback, to base his squad on. To bolster these seniors, Capt. Gene Taglienti, Jim Anderson, Kim Gillette, Hal Williams, Ron Trudell, and Bill Grosser, Bovard relied heavily on many freshmen to round out the squad.

The team showed a definite lack of experience in one-platoon football in all their games, especially the first few. A pouring rain and many fumbles gave them a victory over Northland, and the Homecoming spirit inspired them to victory over Ferris. The next Saturday the team followed by many loyal fans, journeyed to Marquette to battle Northern for the Upper Peninsula championship. In the most exciting game played in years, the Wildcats nosed out the Huskies by scoring a touchdown in the last minute of play and getting the tie-breaking extra point on a dramatic pass play.





All was not in vain, however, for the team played hard and had many good moments along with the bad ones. Gary Heilala broke away for many long runs and George Hill, Jim Nyquist, and Ed Bishop were stalwarts of Tech's strong line. In addition, many promising freshmen gained valuable experience for the seasons to come.

That's the story. Nothing left to do now but . . . PUNT!



HOCKEY

The 1954 hockey season was the beginning of a new era in Tech's sports history. The installation of artificial ice into Dee Stadium gave assurance of good ice to play on at all times and insured months of pre-season practice for the team.

The artificial ice was not the only new item, for most of the faces on the team were new also. The graduation of Joe Di Bastiani and Ray Puro and their teammates left Coach Al Renfrew with only six returning lettermen and two sophomores. Hence twelve freshmen donned the black and white uniforms of the Huskies during the season.

The dedication of the new artificial ice featured the first of a two game series between the Portage Lake Pioneers and the Tech Huskies. With Dee Stadium packed with spectators both nights the team battled evenly all the way with Portage Lake gaining a close decision in the second game after coming from behind to tie the first game.

The team went on the road for six games then and came home with two victories as they furnished the opposition for Montana School of Mines debut into intercollegiate hockey. Ray Kestner was lost for the season, though, suffering a broken leg.

Against Western Hockey league competition the team didn't fare so well, beating only Michigan State and finishing in the cellar of the league. Most humiliating were the four shutouts thrown at them by North Dakota, a team that won only one league game afterwards.

The Huskies were not a pushover, though. Fans will not soon forget the Winter Carnival series against Michigan when a determined Tech team made up a three-goal deficit in the third period and took the vaunted Wolverines into overtime before losing. Two weeks later the league champion Minnesota Gophers were played to a standstill and needed an overtime to win.

To name the star of the team would be impossible for the team was well-balanced. All three lines had scoring ability and all the defensemen were capable.

Though a dark one, the 1954 season gave the young Tech team much valuable experience and as a team played together more and more, they improved greatly. Graduating are co-captains George McGinn and Harry Taylor, Ray Kestner, Paul Tormala, and Ken Kulju, but those that return next season have the fans' confidence that they will carry the glory of Michigan Tech to new and greater heights.

RESULTS

	Tech	Opp.		Tech	Opp.
Portage Lake	3	3	North Dakota	0	4
Portage Lake	4	5	North Dakota	0	7
Montana School of Mines .	18	1	Michigan	3	8
Montana School of Mines .	15	1	Michigan (overtime)	6	7
Denver	1	15	Minnesota	3	9
Denver	1	7	Minnesota	3	6
Colorado	3	6	Minnesota (overtime)	4	5
Colorado	0	5	Minnesota	3	11
North Dakota	0	5	Michigan State	1	4
North Dakota	0	5	Michigan State	2	1
Duluth	6	5	Michigan State	5	3
Duluth	10	3	Michigan State	1	6
Duluth	2	1			

First Row, l. to r.: Harry Taylor, co-captain, Paul Vitton, Ray Kestner, Ken Kulju, Al Renfrew, coach, George McGinn, co-captain, Paul Tormala, Jean-Louis Barbe, Jim Wark. Second Row: Ron Liikala, Tony Cuculic, Vic Piasecki, Ed Gingell, Jerry Kestner, Ernie Harwich, Gilles Rivet, Al Taylor, Ray Merrifield, Harvey Glover, Willie Tattersall, Bill Brookes, Ed. Koepel, manager.







BASKETBALL

Basketball was the success, as far as Tech's major sports were concerned. The 1954 team compiled an eleven won—five lost record that is the best record a Cox-coached team has ever had. The eleven wins is the largest number a Tech team has had in its history.

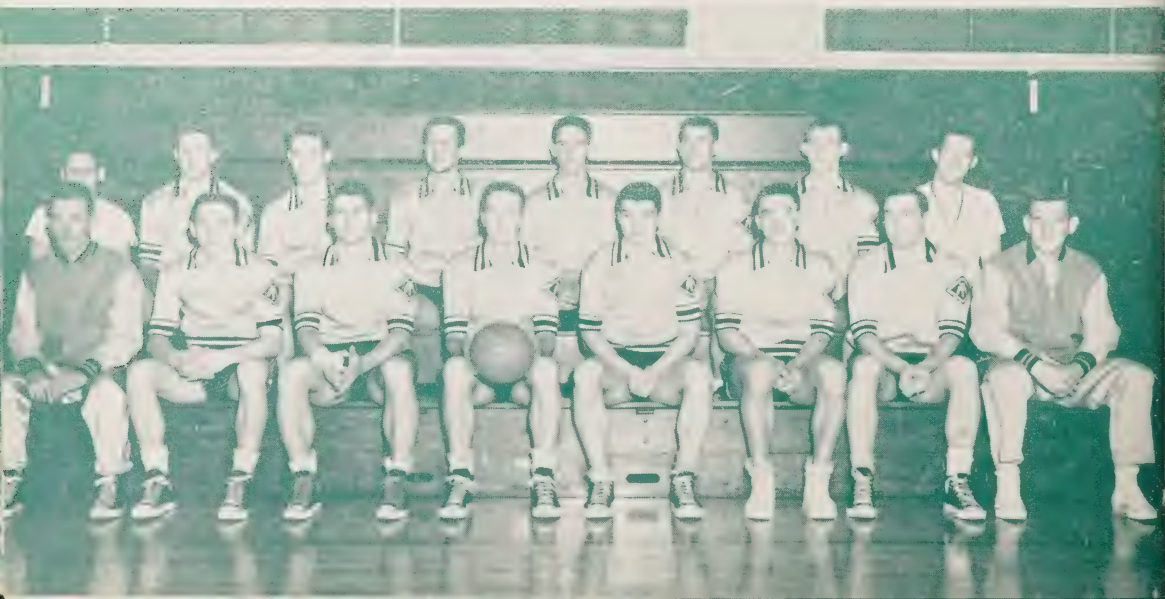
Sparkplugs of this great team were Terry Thompson and Herm Gierow, both playing their first year for the silver and gold. Thompson led the team in scoring and Gierow was second even though he missed some games due to injuries. Both played superbly on defense as well, as opponents often found it quite difficult to score on Tech.

Thrills galore were experienced by the Tech fans for the team won many close games at home while losing none. After two defeats on the road, the team found itself and opened their undefeated home season with a thrilling one-point victory over Superior. Ray Trehwella scored a basket in the last second after Gierow intercepted a Superior pass.

The Huskies also proved to be a match for a strong Duluth team, which had lost only one game before bowing to the Huskies. Dan Stupka scored 20 points to lead a red-hot Tech team. Another feature of the season was the visit of the University of Mexico team to the Copper Country. The height

L. to R., Row 1: R. Benoit, Ass't Coach, D. Stupka, J. Anderson, R. Soderberg, G. Griess, R. Havel, T. Corcoran, V. Cox, Head Coach.

Row 2: J. Mayer, Mgr., R. Trehwella, G. Gross, D. Mick, D. McCleary, T. Thompson, F. Rose, Mgr.



of the Tech team was too much for them, and they also were defeated. Against Ferris the team set a new record for scoring in Sherman Gym, scoring 97 points in the rout.

Seniors on the team are only three, Capt. Bob Soderberg, Jim Anderson, and George Greiss. Thus Coach Cox is looking forward to another successful season next year, even better than 1954, the best ever.

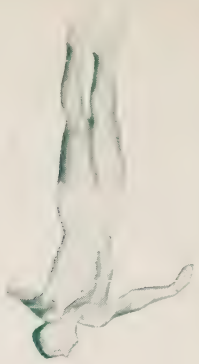
RESULTS

	Tech	Opp.		Tech	Opp.
St. Norbert's	75	89	Lawrence Tech	52	90
Stevens Point	55	67	Ferris	82	58
Superior	57	56	Eau Claire	63	60
Northland	66	48	Northland	77	66
Mission House	85	56	Wayne	55	79
Duluth	73	70	Ferris	97	57
U. of Mexico	64	46	Northern	73	70
Northern	91	75	St. Norbert's	74	86









SWIMMING

The Tech swimming team went through its first undefeated season in 1953-54. The five-year old team swept through four meets and set many new pool records. In December they traveled into Wisconsin and came home with a victory over a Beloit team that had been undefeated for three seasons. They also swamped an out-classed Lawrence squad.

Then came the feature of the year, for the first time two home meets. Happily splashing in their own pool, the Huskies beat an always-powerful St. Thomas squad in the first and defeated Macalester in the second home meet.

The team set new records in three events, and sophomore Herb Schreiber took part in all three. Schreiber in the 200 yd. backstroke, Schreiber in the 150 yd. individual medley, and Stowe, Babcock, and Schreiber in the 300 yd. medley relay were the record-setters.

With the loss of only two seniors, Captain Bob Battsche and Dave Cicchi, the team stands a good chance of remaining unbeaten for quite awhile.

THE 1954 SWIMMING TEAM

l. to r., Front Row: Herb Schreiber, Sandy Rogers, Jerry Stowe, Jim Lehtonen.
Second Row: John Rasch, Bob Battsche, Capt., Lynn Babcock, Bob Salmi, John Robertson.
Third Row: Jim Smart, Ken Hawk, Coach, Tom Momiyama.



THEY'RE OFF



THE WINNER!



RESULTS

Tech 73	Lawrence	11
Tech 50	Beloit	34
Tech 49	St. Thomas	35
Tech 51	Macalaster	33

COACH KEN
TAKES A DIP!



BOXING

Once again the 1954 schedule of the Tech boxing team consisted of home and home meets with Superior. Before meeting Superior the team members were picked by a group of elimination matches held before an enthusiastic crowd. The next week the Huskies defeated Superior in Sherman Gym, winning some close, hard-fought decisions. The following week Superior won the decisions and the team lost at Superior.

RESULTS

Tech 5	Superior 3
Tech 2	Superior 6





TRACK

The 1953 track season was quite successful for Michigan Tech as the team won three meets and took third in another. Starting off with a victory over St. Norbert's in a dual meet, the team went on to win a triangular meet at Steven's Point.

On Engineer's Field the Huskies poured it on to win the Tech Invitational with ease. The final meet of the season was the Pioneer Relays at Carroll, Wisconsin, where the Huskies tied for third in a field of eleven.

Outstanding performers on a well-balanced team were Russ Hart in the 440 yd. run, Larry Looby in the high jump and high hurdles, and Bert Jones in the discus.

RESULTS

Tech84

St. Norbert's47

Tech95

Soo Tech45½

Stevens Point45½

Northern21½

Northland 5½

Gogebic 5

Suomi 1

Tech68½

Stevens Point60

Oshkosh33½

Beloit72½

U. of Wis. (Milwaukee) ..62½

North Cent. Teachers ...45

Tech45

Carroll28





GOLF

Led by Capt. Gerry Harris, the Tech golf team took on a six match schedule, but ended up winning only from their Upper Peninsula rivals, Northern, Soo Tech, and Suomi. The Duluth branch of the U. of Minnesota beat them twice and Steven's Point was triumphant in two triangular meets. However, Coach Al Renfrew rallied the team and they won their last two meets from U. P. foes. Besides Harris, the other members of the team were Norm Jensen, Jim Reum, Dave Post, Clark McNaughton, and Charles Anderson.

RESULTS

Duluth	19½	Stevens Point	15
Tech	1½	Tech	14
		Northern	7
Stevens Point	15		
Lawrence	14	Tech	7
Tech	7	Northern	5
Duluth	16½	Tech	24
Tech	4½	Soo Tech	7
		Suomi	3

Gerry Harris

Jim Reum

Clark McNaughton



TENNIS

The 1953 season was the end of a long trail for Michigan Tech's tennis teams. Steven's Point gave them their first defeat after they had gone undefeated for the last three years. The streak was broken at Steven's Point and to show it was no fluke a strong Northern team routed the Huskies in the following match. But the team managed to finish the season with a winning record as they defeated Duluth twice and Soo Tech once. Coached by Verdie Cox, the team consisted of Jim Eickmann, Capt., Gil Starks, John Daniels, Tom Wittcock, and Ron Rademaker.

RESULTS

Tech 6	Duluth 1
Tech 3	Steven's Point 4
Tech 1	Northern 6
Tech 6	Duluth 1
Tech 6	Soo Tech 1

Jim Eickmann

John Daniels



SKIING

The Tech Huskie ski team opened their season on the hickorys with the Central Intercollegiate Downhill and Slalom meet at Mt. Ripley during the Winter Carnival. It was a close meet but it appeared as though Tech would take it as they were ahead in the slalom near the end of the second day, having won the downhill races the day before, when the team suddenly became plagued with falls and other mishaps. The UMD quickly took advantage of this and won by a scant one percent.

The team's second meet was held at Duluth under sub-zero weather conditions (13° below) and was the Central Intercollegiate Four Event. UMD again beat Tech out for first honors in this meet, marking the first time in several years that they have been able to beat Tech twice in the same season.

The final meet of the season saw Tech easily run off with the Michigan Intercollegiate Skiing Championship by beating the University of Michigan, Michigan State, Central Michigan, Wayne University and Western Michigan. In the combined results of this meet Norm Jensen of Tech was first, followed by Wilkoz for second honors.

Those who skied for the Huskies this season were:

1st TEAM

1. Jon Saunders
2. Bill Slattery
3. Steve Wilkoz
4. Norm Jensen
5. Ray Slattery

2nd TEAM

1. Bill Baxandahl
2. Bill Mossner
3. Ace Nydahl
4. Jack Racine
5. Bob Neal

BELOW, Left: A. Midzkog. Center: S. Wilkosz accepts M. I. S. A. Trophy at Boine Mt. Right: "Huskies" at Boine Mt.



OPPOSITE PAGE, Upper R: J. Saunders. Upper L. Coach Lonsdorf demonstrates for Baxandall, Saunders, and R. Slattery. Middle and Lower: Lonsdorf instructs Jr. skiers.



G R E E K



LETTERS





THETA CHI EPSILON

1953-54 was **Theta Chi Epsilon's** most successful year since its reactivation in 1950. The sorority began the year with a reception for the freshmen co-eds, followed by a pledge period during which nine new members were added to the group.

During this year Beta Chapter of Theta Chi Epsilon was organized at Sault Ste. Marie.

Social activities of the year included a Christmas party for all co-eds, a spring outing and a banquet.

The most outstanding projects undertaken by the organization were Winter Carnival entries. In Class B competition Theta Chi Epsilon took second place plaques in both snow statue and stage revue and a first place trophy for their float, thus copping first place in Class B.





First Row: Hella Grunzig, Virginia Doane, Kathleen Heckel, Ann Brickner.

Second Row: Jean Schettler, Patricia Rudd, Gail Brown, Geraldine Hartley, Barbara Martin, Phyllis Strong.

Third Row: Bonnie Haigh, Shirley Pittenger, Amy Wettberg, Nancy Daniels, Phyllis LeGault, Arbutus Nakkula, Dawn Michaud, Janice Silvola, Donna Smith.

Thera Gail Brown

OFFICERS

Theara Gail Brown

Demi Theara . . . Geraldine Hartley

Recording Sec'y . . . Barbara Martin

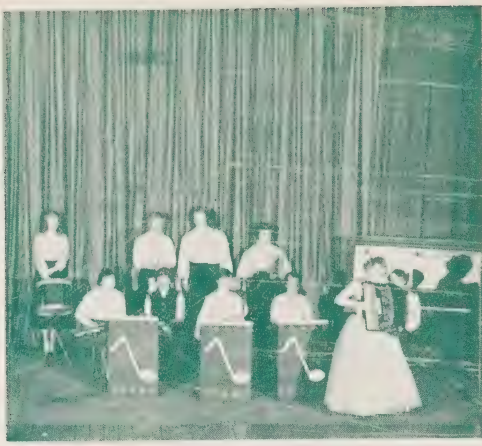
Corresponding Sec'y
and Treasurer . . Kathleen Heckel

Advisors . . . Mr. and Mrs Theodore
Pearce

Honorary Members . . Mrs. H. Horlbt

Dr. Ella Wood

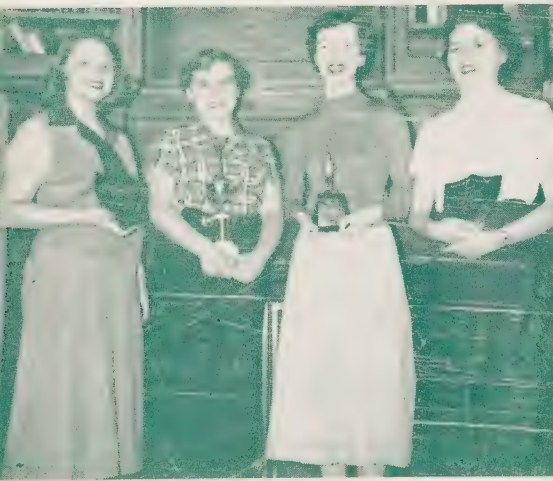




The Moonshiners



Coffee Hour



Dig Those Crazy Trophies!



Prize Winner



Snow Statue 1954

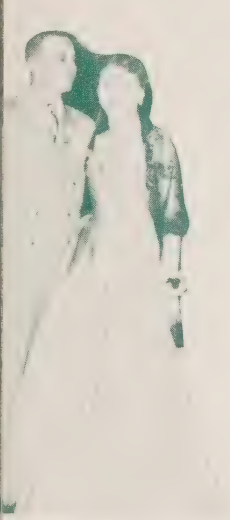
EXTRACURRICULAR



K-Day



Genius At Work



Nightlife



? ? ?



Another Joke!



The Mighty Hunters



KAPPA DELTA PSI

FACULTY MEMBERS

Paul Anderson

Rex Benoit

Alan Bovard

Gerald Caspary

Floyd Doane

Louis Drake

E. J. Townsend

Vern Johnson

Paul Koski

Stanley Lind

Nick Manderfield

J. T. Nachazel

Ed Niemi

Tom Vichich

U. J. Noblet

Capt. H. A. Norris

Franz Schubert

Tom Smith

H. M. Steinhilb

C. G. Stipe



KAPPA DELTA PSI

1953-1954

Since its formation by World War I veterans in 1920, Kappa Delta Psi has maintained a prominent position in campus activities. This year, as in the past years, the "KD's" have again been among the top contenders in the annual competitive events, winning the Homecoming float contest, taking first place with their winter scene in the snow statue contest of Winter Carnival, and are now vigorously defending their intramural championship.

The KD house, located on College Avenue, was purchased and rebuilt in 1948. This year saw more improvements in the nearly completed "Beta Chapter" quarters.

The members of Kappa Delta Psi continue to be well represented on the varsity teams of Michigan Tech and are active in the service organizations and various groups on campus.

OFFICERS:

President	William S. Burke
Vice President	James F. Wilson
Steward	Robert G. Wollney
Secretary	Robert F. Brandt
Corresponding Secretary	James R. Grubb
House Manager	Wesley J. Ross

President William S. Burke





L. to R. Row 1: T. Corcoran, E. Easton, G. Taglienti, R. Branz, D. Lahti, R. Kuntz.

Row 2: D. Campbell, R. Wollney, E. Townsend, W. Burke, F. Doane, H. Williams, R. Brandt.

Row 3: J. Braun, W. Ross, R. Batsche, D. Pagel, C. Lindberg, R. Paquette, K. Schneider, W. Techtien, C. Lebo, P. Lecch, R. Huber, H. Nyquist, M. Lind, D. Stupka, D. Koski.



Upper Left: Just a Quickie

Bottom 1: The Pro's

Bottom 2: The Big Push

Bottom 3: Clean-up Detail





L. to R. Row 1: P. Pagel, J. Grubb, P. Toucher.

Row 2: R. Patrick, P. Anderson, C. Stipe, G. Mroz, R. Fabro, C. LaCombe.

Row 3: D. Lavelle, R. Cary, K. Britton, A. Murtagh, J. Bailey, J. Pohlman, B. Learmont, J. Hansen, J. Wilson, W. Benson, R. Suikonen, J. Klug.

Members Not Shown: R. Kestner, G. Lundin, P. Tormala, P. Vitton.

Left Bottom: Dan the student

Center Top: Christmas at Mrs. Townsend's

Center Bottom: After the Snow Ball

Right Top: Homecoming

Right Bottom: Summer Crew





S I G M A

R H O

FACULTY MEMBERS

V. O. York	L. A. Robert
F. W. Hannum	K. Spiroff
E. G. Spacie	P. F. Holub
G. W. Boyd	G. A. Hellman
J. H. Service	B. Park
T. C. Sermon	R. R. Hagen
C. S. Schonberg	



SIGMA RHO

The Alpha Chapter of Sigma Rho, the first professional mining fraternity in the United States, was organized on the Michigan Tech campus in 1892. The chapter house has been constantly improved since its origin in 1906.

The Sigs, noted for their fraternal spirit, have this year, as in the past, piled up an enviable record in campus activities. Originality and hard work served the fraternity in good stead during the Winter Carnival competition as they scored a near triumph. The members of Sigma Rho are also active and productive members of various professional and honorary societies on campus. The intramural sports program has been advanced and fine teams are being presented.

Always popular among the many Sig social functions are the Annual Christmas Party, the Spring Formal, and the Graduation Party. This year a Fall Smelt Fry was introduced along with a Halloween Party later in the season.

Sigma Rho Fraternity, as always, stands for fraternity leadership, furtherance of campus activities, and continuance of the firm bonds of brotherhood.

Archon Dale MacDonald

ArchonDale MacDonald
Vice-ArchonDonald Hall
SecretaryStan Friesan
TreasurerJack Lockwood





L. to r.: Row 1: A. J. Hill, C. S. Schlanberg,
J. M. Heinz, R. L. Mayville, B. R. Schiup,
G. M. Sinko, V. O. York, F. R. Rons

Row 2: G. R. Aschiam, D. H. Feisel, K. D. Jack-
son, R. C. Jacobs, D. Seepier, B. Wallace,
T. C. Schweinzer, W. J. Berrie, M. T.
Szukhent, W. J. Sepp, J. R. Pintor, L. F.
Rutter

Hard at work on
Carnival Spirit.





L. to r.: Row 1: G. W. Boyd, C. C. Arnold, J. P. Lockwood, S. J. Fresen, D. A. MacDona'd, D. A. Hall, R. H. Engstrom, T. C. Sermon.

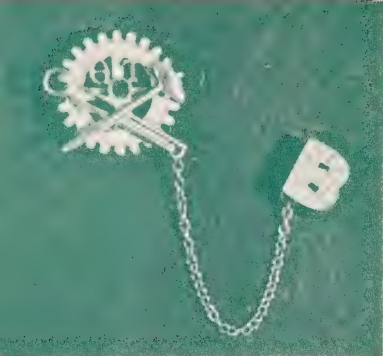
Row 2: G. Kotila, W. Stewart, R. Adams, R. Trudell, D. Randle, K. Hodgins, J. Ridgeway, D. Berquist, R. Fink.



Sigma Rho holds its annual Christmas party for the small fry. It's a great time for all concerned.

Some shots from a few of Sig Rho's parties.





THETA TAU

... a national professional engineering fraternity to inculcate high ethical and professional standards, and to foster close fraternal bonds among its members.

FACULTY MEMBERS

Dr. James Fisher

Leo F. Duggan

Dr. Alfred K. Snelgrove

Dr. Corbin T. Eddy

John M. Harrington

Wilfrid C. Polkinghorne

Dr. Roy W. Drier

William A. Longacre

William B. Gertz

Herbert W. Hawn

Charles M. Harry

Theodore H. Barrett



THETA TAU

Theta Tau, often referred to as H. & T., is a national professional engineering fraternity with 24 active chapters located at prominent engineering colleges throughout the country. The men of Beta chapter, inspired by the founders and charter members have maintained a proud record of achievement on this campus for the 48 years of the chapter's existence.

A cherished victory of Theta Tau this year was the third consecutive winning of the Winter Carnival, thus enabling the fraternity to take permanent possession of the Blue Key's achievement trophy.

Members of Theta Tau, with the heritage that has been bestowed upon them, must and will strive to maintain the high honors which their brothers preceeding them have achieved, and will endeavor to prove themselves honorable and worthy of their school and profession.

OFFICERS

Regent Ronald R. Hocking
Vice Regent William L. Adams
Scribe Peter L. Rodal
Treasurer John W. Burlingame
Steward Charles S. Anderson

Regent Ronald Hocking





L. to r.: Row 1: G. Heilala, D. Ball, S. Wilkosz, R. Mattson

Row 2: D. Baumlér, W. Walin, W. Mossner, N. Jensen, B. Peterson, B. McChesney, J. Wark, D. Post.

Row 3: F. Makarinsky, J. Coon, B. Kruszka, L. Christensen, K. Kulie, D. McMasater, J. Bay, C. Anderson, G. J. Sperry, G. Nordbeck.





Row 1: A. Robertson, Red Dog, J. Barne

Row 2: L. Mulholland, J. Pearson, W. L. Adams, Vice Regent; R. Hocking, Regent; J. W. Burlingame, Treas.; T. H. Barrett; J. A. Quall, L. P. Tonne

Row 3: P. L. Rodal, J. Luecker, R. Socha, M. L. O'Toole, R. A. Rick, L. N. Schemmel, R. Havel, J. Dlouhy, E. Harwich.

Members not shown: J. Ecklesdafer, R. McGinn, J. Reinke, A. Robertson



DELTA SIGMA PHI

FACULTY MEMBERS

Dr. Merriot W. Bredekamp

Dean Fay L. Partlo

Mr. Eric Bourdo

Mr. Theodore Pearce

Mr. James Bahti

Mr. James Jones



DELTA SIGMA PHI

Delta Sigs are pledged to loyalty to College and Fraternity, and their chapter life is a tribute to the ideals of democracy in action. Their theme is dynamic devolpment and progress—of the student, the College, and the Chapter.

Thirty-three Techmen pledged to Delta Sigma Phi during 1953-54, bringing new ideas, new leadership, and new enthusiasm into the chapter. The growth of Beta Pi is keeping pace with its international organization of seventy-four active chapters, bringing together in a bond of fellowship college men throughout the United States and Canada.

Anticipating its own growth, Beta Pi chapter's Alumni Board purchased in 1953 a select piece of property for a new chapter house at Upland Road and Woodland Avenue. Actually a whole block, the property is an ideal location for the Delta Sigs of the future.

The Carnation Ball on December 12 and the Sailor's Ball on May 8 were highlights of the social year of Delta Sig. Graduation came this year for twenty-four brothers. We'll miss them but we'll long remember their active leadership. A toast to them and the Bond of Delta Sigma Phi.

President Richard J. Sieraski

President	Richard Sieraski
1st V.-President	Roy Schultz
2nd V.-President	Ken Seppala
Treasurer	George Hill
Accountant	John Chisholm
Recording Sec'y ..	Rayne Charboneau
Corresponding Sec'y	Tom Smith
Sgt. at Arms	Don Bowen





R. to L.: Row 1: J. Marchaterre, R. Charboneau, R. Cadogan, G. Gildner, R. Johnson.
 Row 2: H. Au'd, R. Drummond, T. Pa'rmer, T. Smith, R. Bongiovanni, W. Barber, R. Wittig.
 Row 3: D. Ottoson, P. Gottwald, J. Sullivan, V. Kors, R. Schu'tz, B. Karinen, J. Buzzelli, L. Rahn,
 J. Shaw L. Lockwood.



"Hellweek—Helpweek"
 Delta Sig pledges mop floors
 at St. Joseph's Hospital.



R. to L.: Row 1: B. Edgerton, R. Olson, R. Sieraski, T. Niemi, R. Kelly.

Row 2: R. Whiton, J. Rosenbery, G. Hill, P. Pallas, R. Rademaker, K. Kilponen, T. Kirby.

Row 3: D. Hanrahan, D. Bowen, K. Seppala, D. Gunning, P. Riley, D. Hinckfoot, R. Lunard'ni, D. Tomasini, V. Snyder.



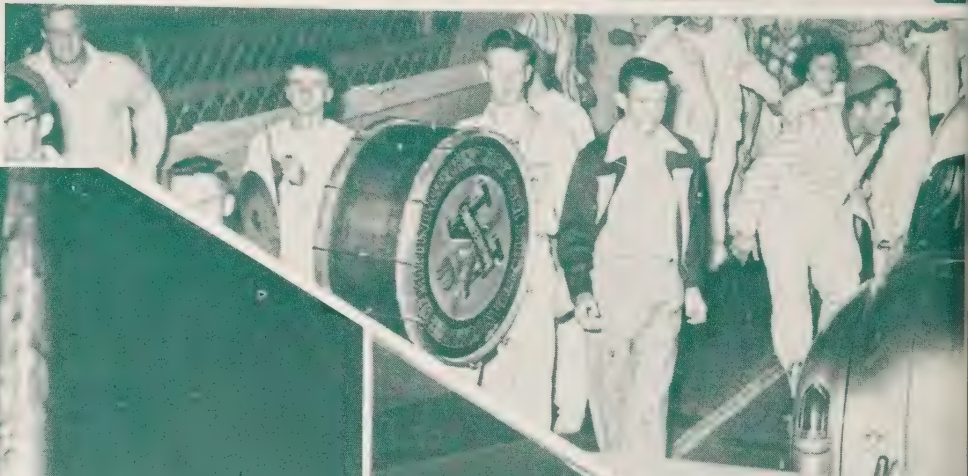
SPECIAL



EVENTS



F R O S H





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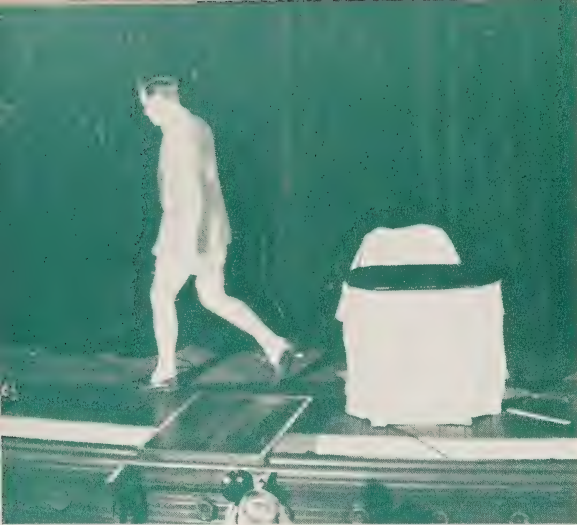


WINTER



CARNIVAL





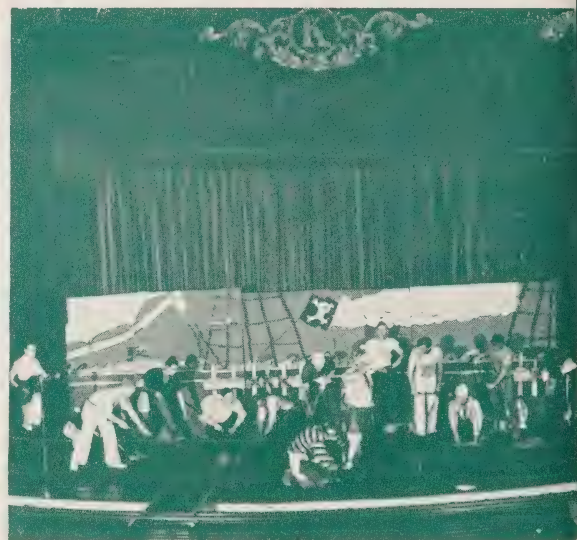
Master of Ceremonies, L. Jackson



Theta Tau "Snowwhite" First Place A



Theta Tau, "Prince Charming to the rescue"



Sigma Rho "Pirates"



A. I. P., "WHDF-TV", First Place B



Delta Sigma Phi, Third Place A



Gamma Delta "Tech Life"



Kappa Delta Psi, "Strain" Second Place A



Newman Club



Theta Chi Epsilon, Second Place B



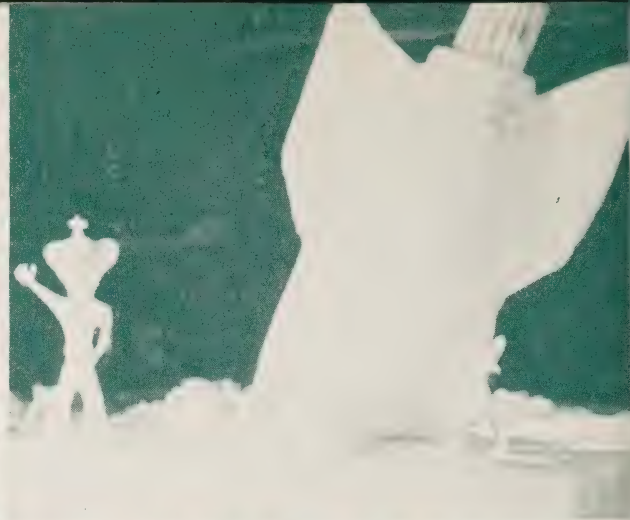
International Club



Awards Given for Winning Skits



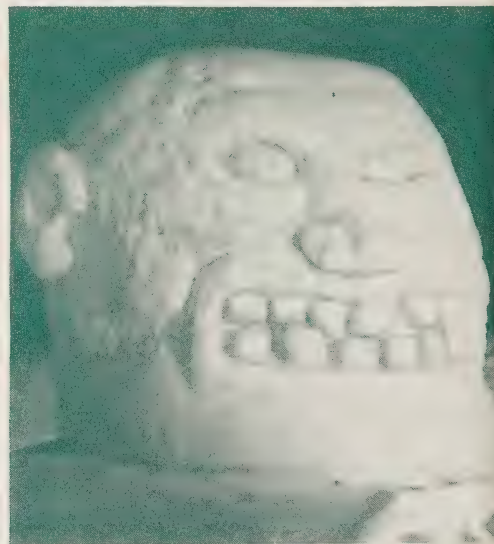
A. I. C. E., "She's holding her own"



S. A. E., "Winter Carnival or Bust"



Tech Wives



A. I. Ch. E., "Hockey Player"



Delta Sigma Phi, "Ski-man"



Forestry Club, "Treed", Third Place B



Theta Chi Epsilon, Second Place B



Sigma Rho, Second Place A



Gamma Deita



K. D., "Winter Scene", First Place A



A. S. M. E., First Place, B



Wesley Foundation



MacArthur's Engineers



A. P. O. Queen's float



A. S. C. E., Third Place B



Theta Chi Epsilon, First Place B



Newman Club, Third Place A



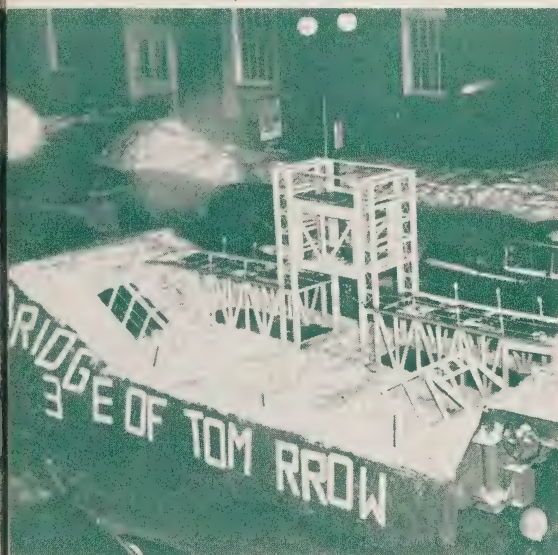
Sigma Rho, First Place A



A. I. E. E., Second Place A



Sacred Heart H. S., First Place H. S.



Delta Sigma Phi



Theta Tau, Second Place A



Carnival Fun Night

ENGINEERING SHOW



The sixth of a series of biennial Engineering Shows was held on the campus of Michigan Tech on May 6—9, 1953.

The 1953 Show was the first to feature exhibits from industrial concerns throughout the country. The addition of the new Memorial Union Building on the campus made this phase of the show possible. Features from industry included the General Motors' Parade of Progress, a quarter of a million dollar exhibit from the United States Navy, and a model of the new Straits bridge.

The other major phase of the Show was that of the exhibits built and operated by the students and faculty of Michigan Tech.

The 1953 Engineering Show proved a great success. It was attended by nearly 20,000 people from the Wisconsin-Michigan area.

1952—ENGINEERING SHOW COMMITTEE—1953

General Chairman	Gerald L. Shannon
Vice-Chairman	Duane H. Feisel
Secretary-Treasurer	Robert L. Peimear
Faculty Advisor	Prof. G. W. Swenson
Director of Industrial Exhibits	Gilbert R. Smith
Director of Student Activities	Robert W. Wade
Director of Buildings and Grounds	Stanley J. Friesen
Director of Advertising and Publicity	R. J. McCormick







POTTER

QURPR

Gamma Delta



L. to r.: Row 1: G. G. Gildner, Sec.; E. W. Feldscher, Pastor; L. F. Lockwood, Pres.; J. Q. Peterson, Vice-Pres.; H. C. Brunke.

Row 2: H. G. Schreiber, G. J. Schwark, R. F. Mattson, J. P. Brooke, J. H. Volpel, E. D. Sjolholm, H. C. Ruska, G. E. Keiler, R. W. Lange.

Row 3: Roger H. Peterson, C. W. Haynes, K. R. Kline, S. E. Ehinger, E. A. Kern, B. Karinen.

Members not shown: E. Jutzi, Treas.; D. MacNeill, Dawn Michaud, W. Mossner, R. Nankee.

The Beta Delta chapter of Gamma Delta, at Michigan Tech, is a Lutheran Student's organization established primarily to give students the advantages of Christian fellowship with other students while attending M. C. M. & T. The regular bi-weekly meetings are held in the Parish Hall of the St. Peter and Paul's Lutheran Church in Hancock, where many of the social functions are also held.

The organization has been active in all student activities here at Michigan Tech this past year as well as their traditional Initiation Banquet, picnics, and numerous other "get-togethers."

OFFICERS

President	Lloyd F. Lockwood
Vice-President	Jerome Q. Peterson
Secretary	Gilbert G. Gildner
Treasurer	Edward Jutzi
Counselor	Rev. E. W. Feldscher

Michigan Tech Christian Fellowship



L. to r.: Row 1: P. N. Parks, Vice-Pres.; R. C. Hanson, Pres.; R. H. Hubbard, Treas.; J. R. Seddon, Fac. Advisor.

Row 2: H. J. Lawson, J. A. Soper, D. G. Wixtrom, G. A. Cooley, R. E. Hall.

Members not shown: Gary Ewert, Phyllis LeGault, Mr. and Mrs. Larry Jackson, Carl Heald, Carl Franz, Carroll Satler.

The Michigan Tech Christian Fellowship was founded in 1948 as the result of a need for a student-led, interdenominational Christian club on campus.

M. T. C. F. is a chapter of the national Inter-Varsity Christian Fellowship, which has member groups in colleges and universities in almost every state in the union. The organization is independent, and no previous church affiliation is needed to take part.

Among its activities the Fellowship sponsors student Bible discussions, special speakers and films, and various social programs. One of the main objectives is to examine the validity of historic Christian faith, and its application in student life.

Inter-Collegiate conferences are also held several times a year throughout the Upper Peninsula, uniting students from Northern Michigan College of Education at Marquette, Gogebic College, in Ironwood, Wisconsin State, at Superior, and the University of Minnesota, at Duluth.

Newman Club



L. to r.: Row 1: W. E. Serchak, Treas.; S. T. Wilkosz, Vice-Pres.; P. L. Fehrenbach, Pres.; Rev. Glen G. Weber, Chaplain; D. L. Stember, Steward; F. J. Chernosky.

Row 2: G. J. Sperry, T. J. Herron, K. J. Kulie, E. S. Rousseau, J. S. Wakeman, J. J. Hussin, J. A. Quaal.

Row 3: G. A. Cleary, R. J. LaLuzerne, F. E. Slawinski, G. G. Garbell, D. J. Bayerl, T. F. Smegal, W. E. LaLuzerne, J. H. Shanley.

The Newman Club is established at Mich. Tech as the organization for all Catholic students. A secular school is responsible only for providing the means of the student's secular education. First in importance then, is the Newman Club's religious program. At Mich. Tech there are special devotions in the form of Corporate Communion at least once each term, Group Rosaries each Thursday evening at the Newman House, and a Living Rosary in cooperation with the nurses of St. Joseph's Medical Center.

Secondly, the student will not be able to recognize all the dangers to his faith unless he is well instructed in the teachings of the church in all phases of life. Cardinal Newman said, "Ignorance is the root of littleness." If Newmanites are to learn to sanctify the Academic life, they must apply the principles of their religion in all phases of life. There are weekly discussion groups on Catholic Moral Guidance moderated by our chaplain. Non-Catholics are invited to attend these sessions. The chaplain is available for spiritual advice and counsel. Until all Catholic students engage with spirit and enthusiasm in this intellectual program, the club and its individual members will remain "little."

Newman Club



Row 1: E. A. Gust, N. R. Giquere, M. G. Heinz, B. J. Beber, E. F. Gust.

Row 2: C. S. Larson, C. A. Harrie, A. J. Breclaw, B. A. Plankey, A. E. Brickner.

Row 3: M. J. Valesano, E. L. Beiswanger, C. A. Weber, F. L. Welch.

Lastly, man is a social being. The Newman Club recognizes this, and provides a program of entertainment and recreation for its members. This is the best opportunity for Catholic students to become acquainted and to enjoy themselves under Catholic auspices. Under this heading are the informal dances after the regular business meetings, the Communion breakfasts after the Corporate Communions each term, the Christmas party that the Newman Club arranged and carried out for the children of the Baraga Indian Orphanage, and the various parties held during the school year for all Catholic students on campus.

It might be mentioned here that the Newman Club is especially proud of the fine showing they made in the Intramural sports of basketball and bowling, and in the Winter Carnival events. Their Queen Candidate, Valerie DeMars, shared top honors while the members turned out a place winning float and snow statue plus the winner of the Beard Contest.

The officers of the Newman Club for the school year 1953-54 were: President, Paul Fehrenbach; V. President, Steve Wilkosz; Secretary, Hugh McShane; and Treasurer, William E. Serchak.

Wesley Foundation



L. to r., Row 1: G. L. Waltman, Vice-Pres.; L. K. Mallett, Pres.; C. B. Heide; J. C. White, Devotions; J. M. Krieger, Recreation.

Row 2: K. D. Walls, D. R. Nemlon, W. J. Ferguson, R. A. Culver, G. N. Bennett, F. D. Meyers, S. G. Edwards, Sec.-Treas.; J. R. Balfour, Director.

Westminster Foundation



L. to r.: Row 1: K. N. Heckel; C. G. Caldwell, Vice-Pres.; R. L. Brummel, Pres.; J. Brummel.

Row 2: R. A. Johnson; G. H. Mitchell, Sec.-Treas.; R. F. Maken, Advisor.

Varsity Club



L. to r.: Row 1: D. R. Baumler, P. H. Tormala, V.-Pres.; R. J. Batsche, Sec.-Treas.; H. J. Nyquist, Pres.; K. F. Schneider, R. A. Walter, E. M. Jutzi.

Row 2: G. J. Mroz, D. P. Cicchi, N. K. Jensen, J. A. Dlouhy, F. W. Rose, S. T. Wilkosz, H. G. Schreiber, F. M. Makarinsky.

Varsity Rifle Team



L. to r.: Row 1: E. W. Johnson, J. T. Bertva, I. J. Garity, D. L. Starner, D. A. Clemens.

Row 2: R. T. St. Amant, R. W. Salmi, R. A. Culver, W. J. Ojala, Capt.; J. K. Hill; B. W. Finkbiner, Coach.

Members not shown: J. Adamson, F. Gauthier, B. Kruszka, K. Kulju, J. Reuss, J. Richards.

Michigan Tech Huskies



L. to r.: Row 1: F. W. Baxandall; J. J. Racine, Rec. Sec.; E. I. Niemi, Corresp. Sec.; S. T. Wilkosz, Pres.; P. M. Wiedenhoefer, Membership Chairman; R. C. Johnson, Porcupine Chairman; W. A. Mossner, Vice-Pres.

Row 2: W. W. Anderson, D. L. Bullock, B. C. Wittig, R. H. Lutz, J. E. Porter, J. A. Quaal.

Row 3: W. W. Brydon, G. L. Eichhorn, F. H. Gerbstadt, R. E. Gillmore, D. C. Beard.

1953-54

Michigan Tech Huskies Ski Club

The Ski Club had another successful season this year under the leadership of Steve Wilkosz, President. He was assisted by Vice President, Bill Mossner; Recording Secretary, Jack Racine; Corresponding Secretary, Eunice Niemi; and Treasurer, Al Robertson-Steve Langford. Regular meetings were held bi-weekly from November through February. These meetings consisted of the usual order of business, followed by colored movies of skiing in some of the most famous mountain ski areas, and often wound up with coffee and donuts. Once during the season, Coach Fred Lonsdorf gave a talk on what to look for in purchasing ski equipment and how to care for it.

One fine snowy Sunday in January, hoards of skiers were seen all over the campus piling into cars surmounted with racks of hickories. Up the hill and out

Ski Club



L. to r.: Row 1: R. W. Bowlus, R. M. Neil, J. L. Saunders, F. R. Lonsdorf, Ski Coach; S. P. Langford, Treas.; N. K. Jensen, R. J. Robbins.

Row 2: A. R. Socha, J. A. DiVall, G. Ewert, R. A. Janke, Fac. Advisor; L. K. Mulholland, A. D. Smith, J. D. Gruner.

Row 3: C. G. Johnson, S. A. Freed, B. W. Warden, A. L. Bass, R. D. Holmes.

Members not shown: S. Allen, Mrs. R. Anderson, W. H. Anderson, J. Arnsteiner, F. B. Bevis, D. M. Doyle, P. E. Gardner, A. E. Gebeau, D. A. George, L. D. Golin, J. R. Grubb, A. M. Rogers, F. R. Herlevich, T. W. Hotchkiss, N. L. Jones, E. M. Jutzi, D. C. Knauer, D. J. Lamont, E. M. MacQuarrie, L. J. Mason, R. C. Nydahl, B. L. Peterson, J. M. Poole, R. Roberts, C. A. Robertson, T. D. Shaffner, R. J. Slattery, W. E. Slattery, F. Sundquist, J. W. Sweet, J. D. Tomlinson, J. L. Tomlinson, B. F. Tym, B. A. Venn, J. C. White, Alice Will, R. A. Zoly.

M-26, the mad procession fled town and made a "ski-line" for the Porcupine Mountains. It was an annual outing for the Ski Club and almost every member turned out for the occasion. They all congregated for lunch in the rustic Porcupine Mountain Ski Chalet and soon thereafter all the trails in the ski area were swarming with Michigan Tech Huskie skiers. All agreed that the day was well spent.

The Michigan Tech Huskies Ski Club is a member of the Central United States Ski Association, an organization which links together most of the Ski Clubs in the middle-west. As a member in good standing of this organization, the Tech Club was proud to sponsor this year the Central Junior Downhill and Slalom Championship meet at Ripley Hill. It was generally agreed by "insiders" and "outsiders" alike that this ranked among the finest ski meets that have been held in the central area. To add to the club's prestige, the local Junior skiers walked off with most of the championship crowns.

Keweenawan



L. to r.: Row 1: N. A. Rautiola, J. F. Pohlman, Business Mgr.; K. F. Schneider, Editor; J. A. Dlouhy, Photography Editor.

Row 2: T. F. Smegal, Layout; R. C. Hanson, R. M. McKee, J. M. Kreiger, Advertising.

EDITORIAL STAFF

Editor	Karl Schneider
Associate Editor	Ron McKee
Business Manager	John Pohlman
Photography Editor	John Dlouhy
Layout Editor	Ed MacQuarrie
Advertisement Manager	Mike Krieger
Sports Editor	John Volpel

STAFF

Norm Rautiola	Seniors	Jake Dow	Photography
Roland Hanson	Feature	John Hansen	Layout
Jim Grubb	Feature	Tom Smegal	Layout
Kent Barlow	Advertisement	Geraldine Hartley	Typist
Bill Hartley	Typist	Barbara Davick	Typist
Art Smith	Photography		
Faculty Advisor	Theodore Pearce		

Due to the fine cooperation and sincere effort of the staff, the 1954 Keweenawan is completed. I am certain that the Senior Class sends its heartfelt thanks, and may I also take this opportunity to thank the staff for their efforts.

KARL F. SCHNEIDER,
Editor



STAFF, l. to r.: Ron McKee, Jake Dow, John Volpel, Tom Smegal, John Dlouhy, Ed MacQuarrie, John Pohlman, Karl Schneider.



Photographers John Dlouhy and
Ed MacQuarrie

Pohlman, Schneider,
and McKee



The Michigan Tech Lode



Row 1: Norm Rautiola, Barbara Findlay, Gail Brown, Editor; Dave Knauer, Bus. Mgr.
Row 2: Norm Miller, Jon Mayer, Franklin Meyers.

The 33rd volume of the Michigan Tech LODE was successfully completed this year through the efforts of a conscientious and effective staff.

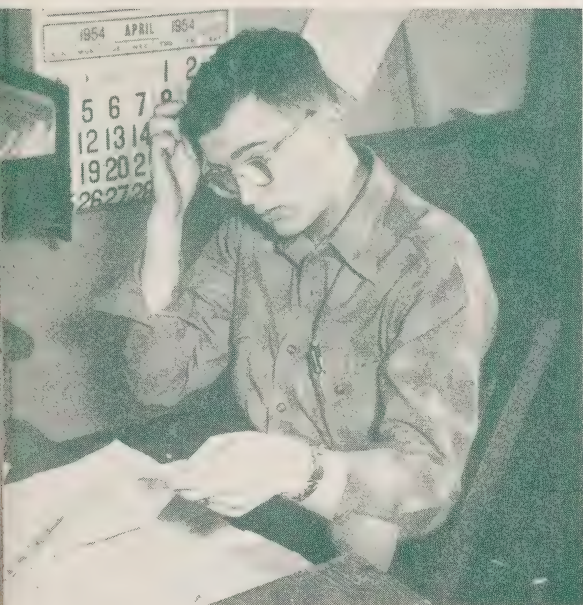
Under the leadership of Gail Brown, second woman Editor in the LODE's years of publication, various staff organizational changes and publication improvements were instituted.

Dave Knauer, who took over the Business Manager spot from Don Poikonen, greatly increased LODE advertising, both local and national, which made it possible to publish a larger paper at no risk of deficit.

Spring term saw a new editorial staff headed by John Wakeman take the helm, with Dave Knauer continuing as Business Manager. Plans for next year include an intensified program to interest students in working on campus publications.

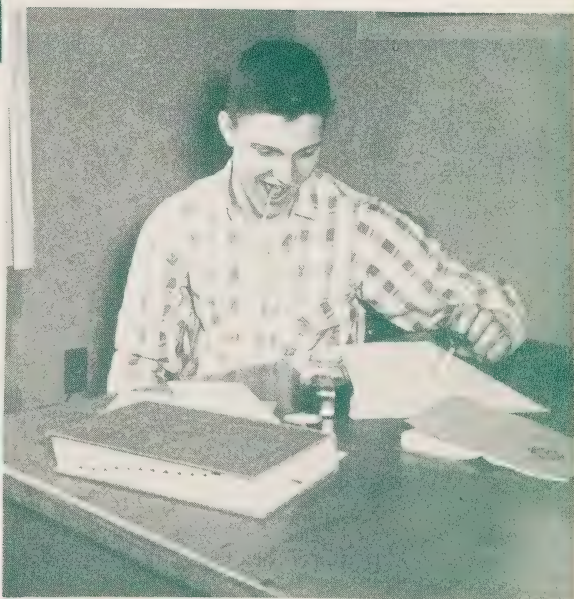
Editor	Gail Brown
Assoc. Editor	John Wakeman
Business Manager	Dave Knauer
Advertising Manager	Franklin Meyers
Sports Editor	John Volpel

Business Mgr. Dave Knauer



Editor Gail Brown and her
successor John Wakeman.

1955 Staff members



Sports Editor John Volpel

Tau Beta Pi



L. to r.: Row 1: J. A. VanWestenburg, D. H. Feisel, R. B. Schettler, R. C. Hanson, C. L. Elliot, Pres.; J. W. Burlingame, Vice-Pres.; D. P. Cicchi, Corres. Sec.; S. T. Wilkosz, Rec'd. Sec.; G. R. Nordbeck.

Row 2: J. G. Wark, L. F. Lockwood, H. E. Auld, B. J. Peckham, R. D. Hitch, N. H. Miller, J. H. Volpel, E. D. Sjöholm, R. R. Hocking, C. L. Martin.

Row 3: N. J. Brown, W. L. Adams, E. W. Johnson, R. H. Paquette, W. F. Miotti, W. K. Ojala, H. L. Evans, R. J. Nankee, F. J. Klima, G. S. Soine, L. B. Hansen.

Members not shown: Dean F. L. Partlo, Treas.; Thor Lande, D. C. Parker, N. H. Strandin, L. E. Rautiola, G. E. Frantti, Hunter Shu, W. E. Mezzano, R. P. Jewett, E. J. Cairns, R. J. Goad, J. Pohlman, R. G. Sharraw, C. A. Robertson, W. D. Hartley, J. G. Jenkin, J. A. Quaal, W. Saul, R. A. Mattson, A. F. Wuori, J. M. Smuk, B. A. Kruska, J. F. Hrovatich, K. C. Kilponen, Mrs. Geraldine Hartley, Women's Badge Holder.

Tau Beta Pi is the largest and most respected national honorary engineering fraternity, having 96 active chapters with a total membership of over 78,000. The purpose of Tau Beta Pi is to mark in a fitting manner those who have conferred honor on their Alma Mater by distinguished scholarship and exemplary character as undergraduates in engineering, or by their attainment as alumni in the field of engineering. Its intention is to foster a spirit of liberal culture in the engineering colleges of America.

Members are selected from the upper eighth of the junior class, and upper fifth of the senior class, on the basis of character, integrity and unselfish activities. Women are not eligible for membership but may be elected to receive a special women's badge. This year the chapter elected Mrs. Geraldine A. Hartley to receive this badge.

The Michigan Beta chapter of Tau Beta Pi was inaugurated at Tech August 19, 1904. This year the chapter celebrated the 50th Anniversary of this occasion. A banquet and other related activities were held in the Spring term. The national officers were present and also all alumni members of the chapter able to make the trip. An interesting time was had by all who took part in the celebration.

The Engineering Show Committee



L. to r.: Row 1: R. A. Mattson, Sec.-Treas.; J. F. Luecker, Vice-Chairman; L. N. Schemmel, Chairman; B. L. Peterson; F. T. Doane, Fac. Member.

Row 2: R. M. Neil, G. R. Nordbeck, P. L. Fehrenbach, D. R. Baumler, J. A. Quaal, D. W. Ball.

The Engineering Show Committee is organized as a permanent committee of the Student Council and operates continuously in order that an Engineering Show will be produced on a biennial basis. In past years a new committee was organized at the beginning of each school year, to make preparations for the next Engineering Show. Because of the increase in the size of each succeeding show, it was felt that one committee should be organized at the beginning of the "off" year and continue in office up to, and including, the presentation of the next Engineering Show. This would mean that one committee would hold office for two school years, the Engineering Show being presented in the Spring of the second year. This new policy governed the organization of the 1954-55 Engineering Show Committee.

The Central Committee of the Engineering Show Committee consists of the General Chairman, Vice-Chairman, Secretary-Treasurer, and the directors of the various phases of the show. They coordinate the combined efforts of the fourteen departments at Tech, acting through the respective professional societies, or affiliated clubs, the faculty, the local merchants, and the big industrial firms throughout the country to put on the Engineering Show.

The next Engineering Show will be held in the Spring of 1955. Following the established precedent of making each show larger and more elaborate, every effort is being made to uphold the tradition.

Student Council



L. to r.: Row 1: D. Pagel, N. Rautiola, Secretary-Treas.; D. Feisel, President; R. Brandt, E. Easton, J. Hansen
Row 2: F. Bevis, G. Nordbeck, D. Cunningham, V.-Pres.; R. Hocking, R. Dick, J. Wilson, E. Kern.

The Student Council is the governing body of the students of Michigan Tech. Through the elected representatives and officers, student self-government is perpetuated with the money provided by the Activity Fee, the Council promotes athletics, social, and educational activities on campus.

Included in the accomplishments of this year's Student Council are: the re-writing of the Student Organization Constitution; the formation of the Upper Peninsula Association of Student Councils; and the support of an extended program of cultural events for the next school year. Homecoming, Saturday night dances, and financial aid for the glee club, band, and drill team trips are some of the other Council projects.

President Duane Feisel
 Vice President Don Cunningham
 Secretary-Treasurer Norm Rautiola

Union Board



L. to r.: G. Caspery, Dr. Fisher, G. Taglienti, L. Lockwood, R. Howard, G. Nordbeck, D. Feisel, F. Harwood, R. Hocking.

The Memorial Union Board is provided for by the Constitution of the Memorial Union Association. The Constitution was drawn up by a student and faculty group over a period of about three years, and was approved by the Board of Control of the College and the Student Council in the fall of 1952.

The Board consists of twelve members, six of whom are students appointed by the Student Council; the balance is composed of a representative of the Alumni Foundation, a representative of the Alumni Association, the treasurer of the College, a member of the Board of Control, the Union manager, and a faculty representative.

The present members are:

R. R. Seeber, Alumni Foundation; J. Fisher, Alumni Association; P. M. Thornton, Board of Control; E. J. Townsend, Treasurer; F. M. Harwood, Union Manager; G. J. Caspary, Faculty representative.

Student members include: R. R. Hocking, Chairman; D. H. Feisel, Vice-chairman; G. Nordbeck, Secretary; L. F. Lockwood, E. S. Taglienti, and R. S. Howard.

During the past year the Union Board sponsored a Winter Carnival photo contest and also organized a stamp collectors club.

The Memorial Union Board has acted mostly as an advisory group in attempting to express the student views on management and policy decisions.

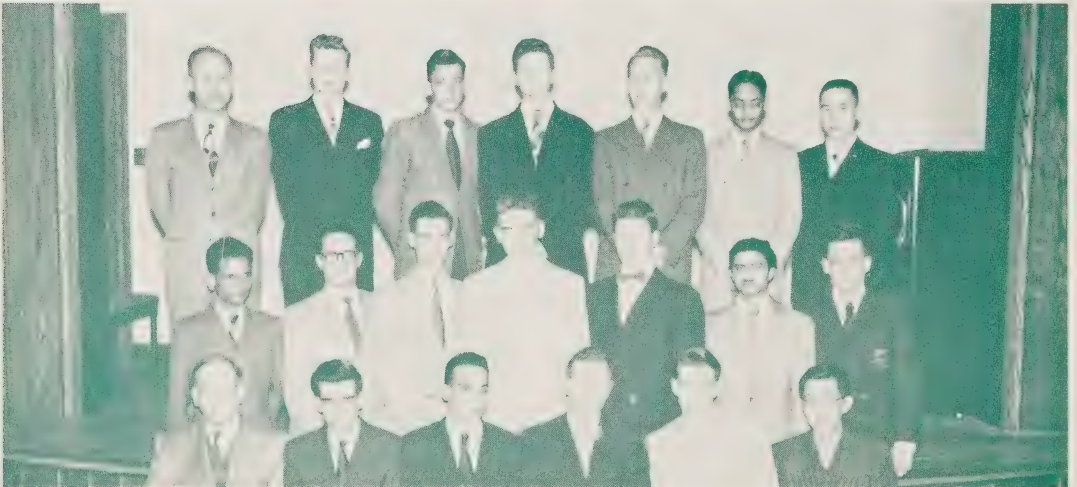
Woodmar Council



L. to r.: Row 1: J. A. VanWestenburg, Mayor;
H. M. Armstrong, Council-woman; D. A.
Maki, Sec.-Treas.; D. E. Nicholson, Sheriff.

Row 2: L. D. McCowen, Councilman-at-Large;
F. J. Klima, Councilman, S. R. Arducant,
Councilman; M. J. Sobolewski, Sheriff.

International Club



L. to r.: Row 1: J. W. Roman, Treas.; M. M. de Goes, South Am. Representative; C. O. Lacombe,
Sec.; N. H. Miller, Sec.-Gen.; J. R. Dalrymple, Canadian Rep.; H. H. Shu, Asiatic Rep.

Row 2: M. L. Rahman, D. K. Cunningham, J. Tobar, D. M. Doyle, A. D. Taylor, S. N. Raza,
G. W. Grant.

Row 3: H. B. Anderson, A. K. Midtskog, R. R. Junqueira, A. I. Kempainen, T. Lande, A. K. Shah,
T. S. Momiyama.

Michigan Tech Glee Club



L. to r.: Row 1: D. R. Weiland, S. T. Troher, J. C. Vasicek, J. M. Krieger, G. R. Aschom, J. R. Grubb, K. G. Riddle, L. T. Jacobs, R. J. Barkley, R. D. Holmes, D. J. MacDougall, Franz Schubert, Director.

Row 2: S. A. Williams, E. M. Jutzi, M. M. Roberts, D. P. Cicchi, R. A. Dick, D. W. Autio, R. M. Scudder, D. F. Pagel, E. K. Miller, R. J. Sironen, R. F. Brandt.

Row 3: R. J. Robbins, J. C. White, G. N. Bennett, R. O. Bunster, P. J. Pagel, P. G. Johnson.

Row 4: D. L. Cawthorn, L. Bullock, C. O. Lindberg, J. J. Norick, F. D. Meyers.

Under the direction of Professor B. Franz Schubert, the Michigan Tech Glee Club has enjoyed one of its best years, both in the number of students participating and in excellent performance. The Glee Club performed many times locally on various occasions, sang at most of the local high school assembly programs, and had a Spring Concert and a Spring Tour which took the boys to the Bay City, Saginaw, Flint area. The Glee Club will lose three members through graduation which indicates another fine group for the future. The officers of the group are: Charles Lindberg, President; Edward Jutzi, Vice-president, Edward Kern, Secretary, and Franz Schubert, Treasurer.

Coeds



L. to r.: Row 1: A. Weitberg, H. Grunzig, B. J. Winstanley, J. Tomasi, J. Silvola, S. Pittenger.

Row 2: B. A. Haigh, P. M. Strong, D. G. Smith, Mrs. J. Schlettler, K. Heckel, P. A. Rudd.

Row 3: P. LeGault, G. Brown, A. Brickner, B. Martin, N. Jones, D. Michaud, Mrs. N. Daniels, I. Garity, B. Davick.

Members not shown: L. Petermann, Mrs. V. Doane, Mrs. G. Hartley, A. Nakkula, L. Waisanen, S. DesRosiers, K. Hanson, E. Divinyi, B. Findley, P. Gardner.

Dorm Club

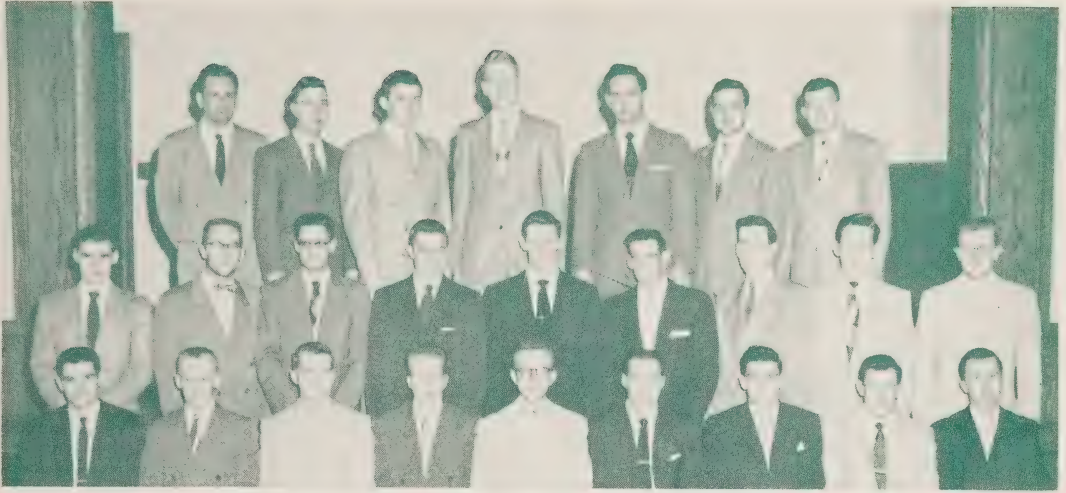


L. to r.: Row 1: J. W. Balai, G. J. Sperrs, Sports Mgr.; J. J. Mavec, Pres.; H. O. Barikmo, Sec.-Treas.; V. E. Metzger, D. W. Autio.

Row 2: R. M. Scudder, R. C. Johnson, T. F. Smegal, J. D. Latva, S. T. Wineman, W. I. Tibbits III, G. R. Aschom.

Members not shown: V. Pioscehi, A. Jacobsen, H. Glover, B. McManus, C. Beatty, B. Schwarting, M. Carr, E. Warren, R. Earp, B. Neil, R. Hasse, P. DeBaeke, H. Forburger, D. Fries, J. Kause, J. Schoolcraft, G. Garbell, J. Knight, D. Crosby.

Blue Key



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Row 2: B. L. Peterson, J. B. Bay, J. W. Burlingame, S. T. Wilkosz, L. F. Lockwood, P. H. Tormala, G. G. Gildner, W. J. Ross, D. F. Pagel.
Row 3: M. J. Sobolewski, E. W. Johnson, R. A. Mattson, R. C. Hanson, D. F. McMaster, G. R. Nordbeck, C. D. Knauer.

Blue Key, National Honorary Service Fraternity was founded in 1924 at the University of Florida, and was inaugurated at Michigan Tech in 1932. The purpose of the organization is to promote worthwhile student activities.

Members are chosen from the upper one-half of the Junior and Senior classes on the basis of interest, participation, and leadership in student activities and their willingness to work to improve their college and the activities which enrich student life on the campus, scholarship being only a secondary requirement.

During the past year Blue Key has again sponsored the Winter Carnival, the highlight of the year's social activities at Michigan Tech. This year, in order to increase participation in the Winter Carnival, the competition between campus organizations was divided into two classes, so that small organizations would be in competition among themselves. The members of Blue Key can be justly proud of the best Winter Carnival yet.

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Row 3: N. A. Rautiola, W. J. Seppi, B. J. Peckham, R. J. Wagner, J. J. Hussin, R. K. Dion.

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Row 2: Hartley, Fahrenheit, Keopel, Briggs, Krieg.

Cheer Team



L. to r.: Row 1: E. Divinyi, N. Jones, A. Brickner.

Row 2: Hugh McShane, R. Hall.

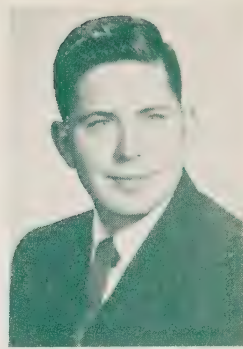
Row 3: Norm Rautiola.



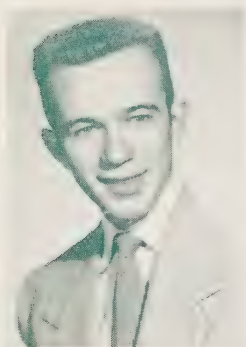
Robert F. Brandt



William S. Burke



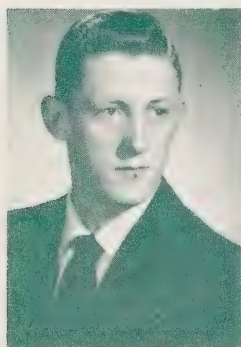
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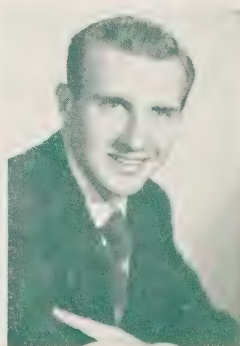


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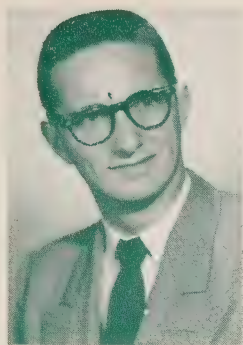
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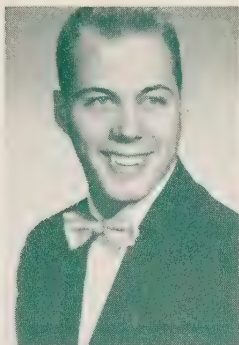
Karl F. Schnieder



Paul H. Tormala



Donald K. Cunningham

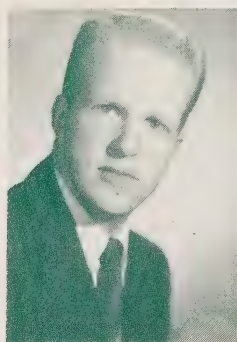


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Charles L. Elliot

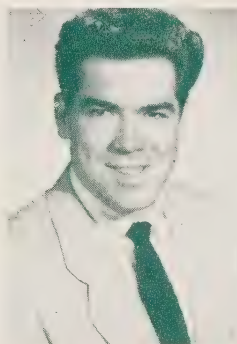
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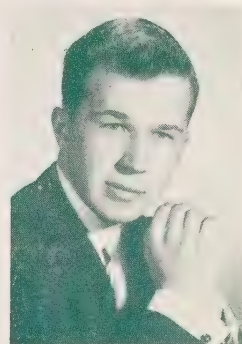
Ronald R. Hocking



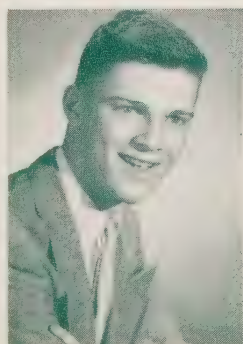
Ronald G. Kellokoski



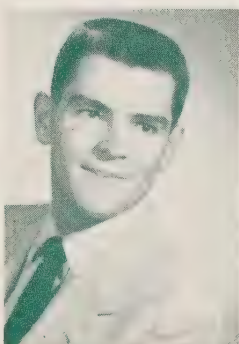
Robert G. McGinn



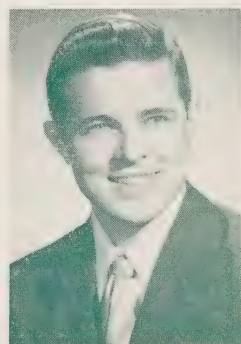
Norman A. Rautiola



John H. Volpel

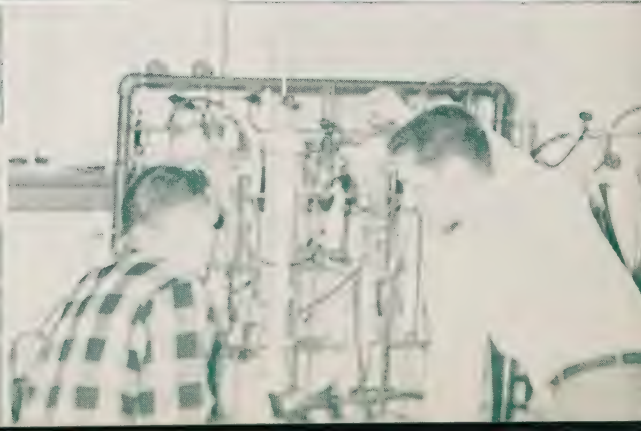
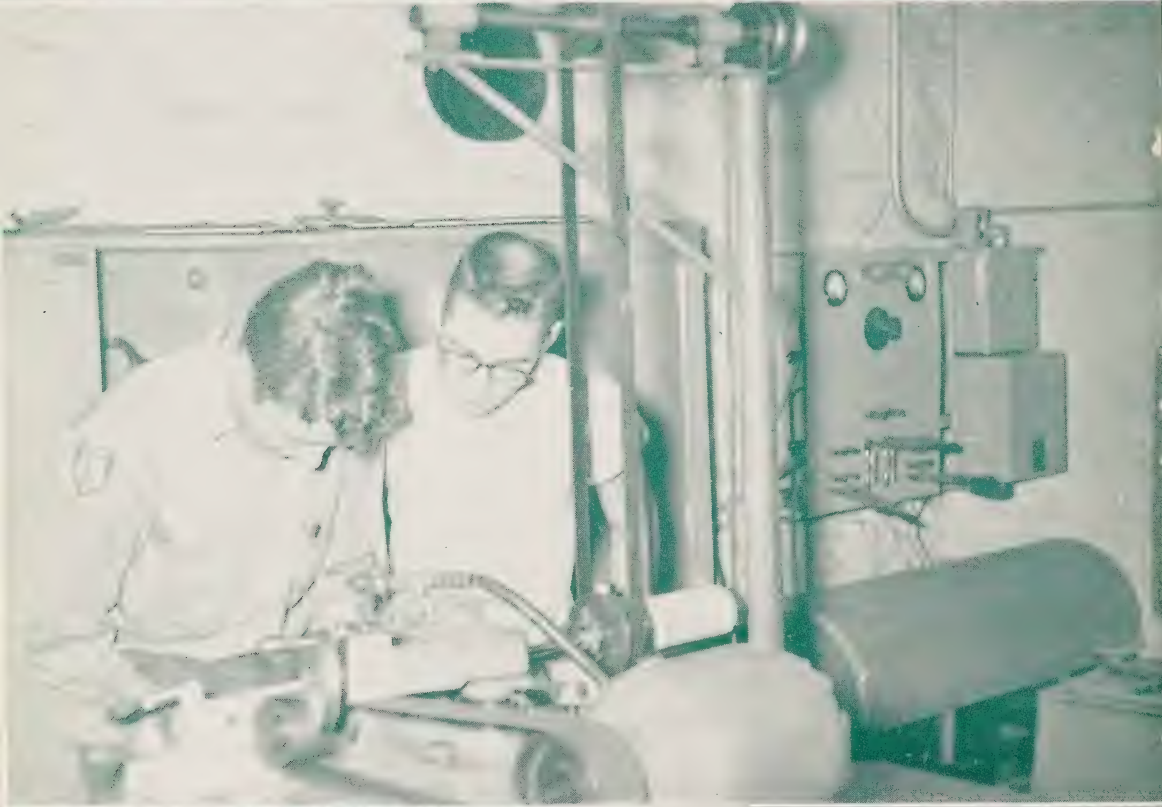


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Senior Index

Adams, William L.; Theta Tau; Military Council president; Tau Beta Pi; Eta Kappa Nu; Phi Eta Sigma; SAME secretary; ROTC Tribune Award; Eta Kapp Nu sophomore award; Radio Club secretary; advanced Army ROTC.

Anderson, Charles; Theta Tau Steward; Alpha Phi Omega 2nd vice president; Camera Club vice president; Chess Club president; AIME; Rocknockers.

Anderson, Melvin L.; Phi Lambda Upsilon president; American Chemical Society vice president.

Anderson, Uhl J. ASCE; basketball, football.

Auld, Harry E.; Delta Sigma Phi; Tau Beta Pi; ASCE; Chi Epsilon vice president; DHH Club; football; Distinguished Military Student; advanced AFROTC.

Batsche, Robert; Kappa Delta Psi; Swim Team Captain; DHH Club; Varsity Club secretary-treasurer; Newman Club; Military Council.

Bay, James B.; Theta Tau; Blue Key; MacArthur Drill Team Drillmaster; Winter Carnival; advanced Army ROTC cadet colonel.

Beling, John H.; ASCE; football.

Bongiovanni, Richard M.; Delta Sigma Phi; AIChE; boxing; swimming; track; advanced AFROTC.

Brandt, Robert F.; Kappa Delta Psi recording secretary; Alpha Sigma Mu; Who's Who in American Universities; Student Council; Junior Class vice president; Blue Key; ASM; tennis; Glee Club; advanced Army ROTC.

Brooke, John; Independents; DHH Club; AIME; Rocknockers; boxing.

Brown, Norman J.; Tau Beta Pi; AIME; Rocknockers.

Bur, Thomas R.; Newman Club; AIME; Rifle Club; Rocknockers; Counselor, Brady Hall; MGM Club (Soo) treasurer.

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Butler, Charles; ASME; bowling.

Burlingame, John W.; Theta Tau treasurer; Tau Beta Pi vice president; Blue Key; Camera Club treasurer; Alpha Sigma Mu treasurer; ASM secretary-treasurer; advanced Army ROTC.

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Campbell, Dean; Kappa Delta Psi; DHH Club; ASM; bowling; handball.

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Cole, Keith E.; International Club; DHH Club; ASME; SAE; Lode.

Cooley, Gerald; Independents; AIEE treasurer; DHH Club; Radio Club; MCM Christian Fellowship.

Coon, Jay B.; Theta Tau; advanced AFROTC; Newman Club.

Cooper, Robert F.; Phi Lambda Upsilon president; AIChE; tennis (Soo); Sigma Alpha treasurer; Distinguished Military Student; minor sports; advanced AFROTC.

Corkin, William; Kappa Delta Psi; SAE president; Blue Key; DHH Club; Winter Carnival Statue Chairman; ASME; basketball.

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Culver, Roger A.; Rocknockers vice president; Rifle Team; band and boxing (Soo).

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Dahlgren, Wilbert L.; Sigma Alpha; ASME; SAE; advanced AFROTC.

deGoes, Mario M.; International Club secretary; AIEE vice chairman.

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Dow, Jake D.; AICHe; ASCE Publicity Chairman; DHH Club; Engineering Show
Committee Chairman.

Drummond, William O.; Gamma Delta; SAME; Camera Club secretary-treasurer;
Advanced Army ROTC.

DuFresne, Albert H.; Soo Annual Ass't Editor; ASCHe.

Durham, Robert; ASME; advanced AFROTC.

Dwyer, John B.; Newman Club; Alpha Beta Delta; AICHe.

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Engstrom, Robert; Sigma Rho steward; ASM; DHH Club; Engineering Show Committee Chairman.

Elliot, Charles L.; Tau Beta Pi President; AIME secretary.

Erickson, Lee; AIME; Rocknockers secretary-treasurer; president Junior Class.

Erickson, Neil; AIME; Rifle Club; Rocknockers.

Evans, H. Lee; Tau Beta Pi; Eta Kappa Nu; Radio Club; Band.

Feisel, Duane H.; Sigma Rho; Blue Key president; Student Council president; Winter Carnival Chairman; Union Board Vice Chairman; Athletic Board; Engineering Show Chairman; Alpha Sigma Mu; ASM; AIME; minor sports; track; Freshman Orientation Committee; scholarship (AIME and GE); Tau Beta Pi; Who's Who in American Universities.

Frea, Ward J.; SAE; band; intramural hockey.

Friesen, Stanley; Sigma Rho; DHH Club; Engineering Show Committee Chairman; ASM.

Gilbo, James C.; SAME; intramural basketball, baseball; volleyball; ASCE; advanced Army ROTC.

Gildner, Gilbert G.; Delta Sigma Phi; Gamma Delta secretary; AIEE; Blue Key; Eta Kappa Nu vice president; Winter Carnival; Distinguished Military student; football.

Gottwald, Paul J.; Delta Sigma Phi; Newman Club; Forestry Club; Drill Team; advanced Army ROTC.

Greve, Dole R.; Phi Lambda Upsilon; AIChE.

Gunning, David; Delta Sigma Phi; Varsity Club; ASME; Swimming Team; boxing.

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Hartley, Geraldine; Theta Chi Epsilon, vice president; Who's Who in American Colleges; Cheerleader; Lode; Band; ASM; Engineering Show; Tau Beta Pi Badge.

Hartley, William D.; Tau Beta Pi; SAE; ASME; DHH Club; Band; Starliners.

Hendrickson, Martin W.; ASCE president; Independents.

Hill, Arthur J., Sigma Rho, Rifle Club; Ski Club; ASME.

Hitch, Robert D.; Tau Beta Pi; Chi Epsilon treasurer; track; football advanced AFROTC.

Hocking, Ronald R.; Theta Tau president; Tau Beta Pi; Who's Who in American Universities; Eta Kappa Nu; Union Board Chairman; Student Council; AFROTC Honor Board; Military Council; AIEE; Blue Key treasurer; Distinguished Military Student; minor sports.

Holmes, Kenneth A.; Forestry Club Chief Forester.

Huru, John D.; Independents; Chi Epsilon president; ASCE; advanced Air Force ROTC.

Jackson, Kaye D.; Sigma Rho; Student Council; Sigma Alpha; Alpha Phi Omega; ASME; swimming team.

Jarvela, Arthur L.; Independents; Alpha Phi Omega; ASCE; SAME; Sigma Alpha secretary; Distinguished Military Student.

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Kissner, William; Sigma Rho; Blue Key; ASCE; Varsity Club; football; track; advanced Air Force ROTC.

Klima, Frank J.; Tau Beta Pi, AIME; Woodmar Councilman; track.

Knowles, David M.; Alpha Phi Omega; AIME; Camera Club; Model RR Club; Rocknockers.

Koski, Douglas J.; Kappa Delta Psi; Forestry Club; Varsity Club; Ski Club; hockey; golf; basketball; Distinguished Military Student; advanced Army ROTC.

Kreg, Wallace G.; ASME vice chairman; SAE; DHH Club secretary; Band; Glee Club; Starliner leader.

Kreiger, Edward L.; Lode; Sigma Alpha; AIP; advanced Air Force ROTC.

Kruggel, George F.; Independents; ASME secretary; minor sports.

Kulju, Kenneth M.; Independents; Rifle Team Captain; Varsity Club; hockey; ASM; Varsity Rifle Team; advanced Army ROTC.

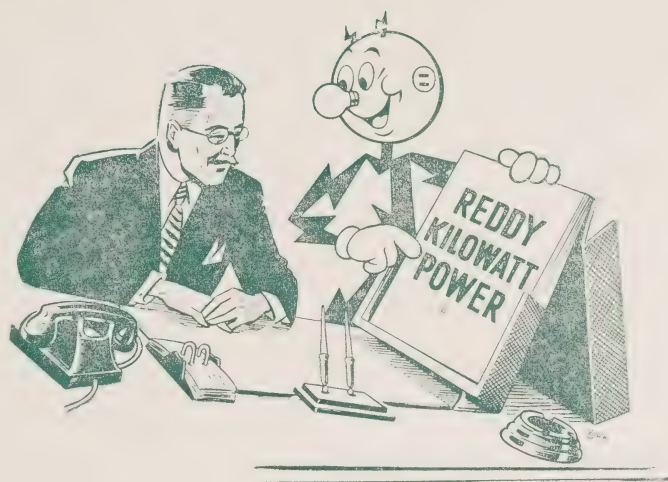
Kunz, Robert C.; Kappa Delta Psi secretary; minor sports.

Kyhkynen, P. W.; AIME.

Larsen, Robert T.; Tau Beta Pi; SAE vice president; ASME; baseball.

Laukel, Quinn C.; Rocknockers.

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Leach, Paul; Kappa Delta Psi; Forestry Club; DHH Club; football manager; Varsity Club; minor sports.

Leonard, Donald J.; SAME; AIME; advanced Army ROTC.

Leonard, Francis J.; Mu Sigma Pi president; ASME treasurer; football; advanced Air Force ROTC.

Little, Richard; Newman Club; Forestry Club; DHH Club; Varsity Club; swimming team.

Lockwood, Jack P.; Sigma Rho treasurer; Forestry Club Ass't Forester; Inter-Frat Council.

Lockwood, Lloyd F.; Who's Who in American Colleges; Delta Sigma Phi; senior class president; Blue Key; Alpha Sigma Mu; ASM; Tau Beta Pi; Gamma Delta president; Winter Carnival Stage Revue Chairman.

Lunardini, Robert C.; Delta Sigma Phi; Newman Club; ASCE; SAME; football; boxing; Drill Team; Military Council; advanced Army ROTC.

Luoma, Ernie V.; ACS president; Varsity Rifle Team; Phi Lambda secretary; Sigma Alpha; Chicago Tribune Silver and Gold Medal winner; advanced Air Force ROTC.

Maki, Earl W.; AIEE; Engineering Show.

Mallett, Lowell K.; Wesley Foundation president; ASCE vice president; Chi Epsilon; DHH Club Council.

Martin, Chauncey L.; Tau Beta Pi; Phi Lambda Upsilon; AIChE president; minor sports.

Matson, Paul L.; Forestry Club; DHH Club.

McGowen, Dale; Woodmar Councilman; ACS; minor sports.

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Mickus, Felix; ASME; SAE; Sigma Alpha; Air Force Rifle Team; Military Council; Distinguished Military Student; advanced Air Force ROTC.

Miller, Norman H.; Tau Beta Pi; Lode; ASME; Press Club; International Club president.

Miotti, Frank; Eta Kappa Nu president; Tau Beta Pi.

Nankee, Robert J.; AICHE treasurer; ACS; scholarship winner; Phi Lambda Upsilon; Tau Beta Pi; Chicago Tribune Gold Medal Winner; Distinguished Military Student; Gamma Delta; advanced Army ROTC.

Ojala, William K.; ASME treasurer; Rifle Team Captain; SAE; Sigma Alpha; Tau Beta Pi; advanced Air Force ROTC.

Onkalo, Fred; Copper Country Civil Air Patrol Officer; Chicago Tribune Silver Medal winner; SAE.

O'Toole, Martin L.; Theta Tau; Varsity Club; ASCE; Newman Club; advanced Army ROTC; golf.

Parker, Dana C.; Sigma Alpha; AIME; Rifle Team; Tau Beta Pi; Rocknockers treasurer; MGM Club president; advanced Air Force ROTC.

Parks, William; Phi Lambda Upsilon; ACS; AICHE; track.

Pasich, Patricia A.; Theta Chi Epsilon president; Medical Club; Newman Club.

Paul, Thomas R.; Rocknockers; football.

Peckham, Burton J.; Tau Beta Pi; Chi Epsilon; Alpha Phi Omega; ASCE secretary.

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Petrick, Gayle D.; AIChE.

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Pratt, Harold; ASME; Newman Club; Drill Team; advanced Army ROTC.

Prin, Gary; SAE; ASME.

Proctor, Gerald C.; Sigma Alpha; Alpha Phi Omega secretary; ASCE; Chi Epsilon secretary; Rifle Club; advanced Air Force ROTC.

Quilici, Robert E.; Sigma Alpha; Air Force Drill Team Commander; AIChE; band; Varsity Club; hockey manager; advanced Air Force ROTC.

Rahman, M. L.; International Association for Hydraulic Research; tennis.

Rautiola, Lloyd E.; Who's Who in American Colleges; Tau Beta Pi; Independents; Winter Carnival; Engineering Show; Chicago Tribune Silver Medal Winner; hockey team captain; Blue Key; Alpha Sigma Mu president; AIME; ASM; scholarship winner.

Rautiola, Norman A.; Who's Who in American Colleges; Alpha Sigma Mu president; Independents; Alpha Phi Omega treasurer; Student Council secretary treasurer; KEWEENAWAN Senior Editor; Lode Associate editor; Arnold Air Society; Cheer Team, manager; Distinguished Military Student; Chicago Tribune Gold Medal winner; Blue Key; ASM; advanced Air Force ROTC.

Reuss, John L.; Independents; Alpha Sigma Mu; Sigma Alpha; AIME; Rifle Club; Chicago Tribune Gold Medal winner; Rockknockers; advanced Air Force ROTC.

Robertson, Charles A.; Theta Tau; Tau Beta Pi; Blue Key; Glee Club; Student Council; Ski Club treasurer; AIEE; Eta Kappa Nu; Winter Carnival Sno-Ball Chairman; minor sports; AFROTC Honor Board; advanced Air Force ROTC.

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Schalm, Walter C.; AIChE; ACS; DHH Club; Copper Hoppers Dance Club; Winter Carnival.

Schettler, Robert B.; Tau Beta Pi; Eta Kappa Nu treasurer; AIEE chairman.

Schlup, B. R.; Sigma Rho; DHH Club, ASCE.

Schmitz, Ralph E.; Alpha Phi Omega; Ski Club; Engineering Show; Distinguished Military Student; advanced Army ROTC.

Schneider, Karl; Who's Who in American Colleges; Kappa Delta Psi; KEWEENAWAN Editor; Gymnastic Team; ASME; Varsity Club; Winter Carnival; Sigma Alpha; advanced Air Force ROTC.

Schnurer, John S.; Newman Club; AIEE; advanced Army ROTC.

Schulz, Roy E.; Delta Sigma Phi vice president; AIChE; basketball; track.

Seeber, Douglas; Sigma Rho; Sigma Alpha; Ski Club; minor sports; advanced Air Force ROTC.

Sjoholm, Emil D.; Gamma Delta; Tau Beta Pi; Phi Lambda Upsilon vice president; AIChE treasurer; ACS.

Smith, Thomas E.; Delta Sigma Phi secretary; Forestry Club; minor sports; advanced Air Force ROTC.

Socha, Albert R.; Theta Tau; Ski Club; Newman Club; ASCE; Chi Epsilon.

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Taglienti, Gene; Kappa Delta Psi secretary; Who's Who in American Colleges; Varsity Club vice president; Winter Carnival Queen Chairman; Blue Key; football captain; Student Council; ASCE.

Talo, Leslie C.; SAE secretary; DHH Club; Winter Carnival.

Techentien, Wallace A.; Kappa Delta Psi; ASCE; SAME; Ski Club; advanced Army ROTC.

Tenney, Robert L.; AIME; Lode, DHH Club; advanced AFROTC.

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VanWestenberg, John; Tau Beta Pi; Woodmar Mayor; Alpha Sigma Mu; AIME; ASM; minor sports.

Vlasak, William M.; Independents; ASM; AIME; Newman Club; Rockknockers.

Volpel, John H.; Who's Who in American Colleges, Athletic Board; KEWEENAWAN Sports Editor; Lode sports editor; Gamma Delta; Tau Beta Pi; ASME secretary; minor sports.

Waisanen, Lucille; Theta Chi Epsilon; Winter Carnival; ACS.

SENIOR INDEX—(Cont.)

Walín, William J.; Theta Tau; AIEE; advanced Air Force ROTC.

Wark, Jim; Who's Who in American Universities; Theta Tau; Tau Beta Pi; Camera Club Blue Key; Alpha Sigma Mu; hockey; Winter Carnival.

Watson, Jack C.; Forestry Club.

Wehner, Donald; APS.

Wellington, Robert J.; ASCE; SAME; minor sports; advanced Army ROTC.

Wercinski, Frank; Baby Sitter.

West, Walter; ASME.

Whiet, James C.; Wesley Foundation; Glee Club; Ski Club; Model RR Club treasurer; ASME vice president; advanced Air Force ROTC.

Whiton, R. W.; Delta Sigma Phi; AIME; advanced Army ROTC.

Wilderspin, Don A.; ASME; SAE; Independents.

Wilkosz, Steve T.; Who's Who in American Colleges; Newman Club vice president; Varsity Club; Theta Tau; Tau Beta Pi; Ski Club president; Ski Team; Blue Key; AIEE.

Williams, Hal; Kappa Delta Psi; Varsity Club; Forestry Club; football; minor sports.

Wittig, C. Roger; Delta Sigma Phi; ASCE; AF Rifle Team; advanced Air Force ROTC.

Wollney, Robert; Who's Who in American Colleges; Kappa Delta Psi; football team captain; Varsity Club president; Student Council vice president; advanced Air Force ROTC.

Wuthrich, John P.; Sigma Rho; minor sports.

Zander, Richard; ASM vice president; band; Glee Club; Rocknockers; Ski Club; minor sports.



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Dear Classmates:

It is my hope that this book will be a lasting monument of our college activities during the past four years, and that in time to come it will be used to guide your thoughts back to the many experiences of the years at Tech.

I would also like to thank you for the cooperation you have shown in making the Yearbook a success this year.

God's speed as you move ahead to new goals, and may all ambitions be found.

Sincerely,

KARL SCHNEIDER,
Editor 1954 KEWEENAWAN



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